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ABSTRACT

This guide is part of a campaign to encourage individuals to adopt an environmentally friendly lifestyle. All available information, tools, and resources are provided to help individuals, neighborhoods, and communities live in a cleaner, healthier environment. Resources from both local and national levels include titles of organizations, brief descriptions, telephone numbers, and Web site addresses where available. Contents include: (1) "Agriculture"; (2) "Earth"; (3) "Energy"; (4) "Forests and Plants"; (5) "Home and the Workplace"; (6) "Just for Fun"; (7) "Land Use, Conservation and Natural Resources"; (8) "Pollution and Waste Management"; (9) "Sustainable Community"; (10) "Teacher Resources"; (11) "Transportation"; (12) "Water and Wetlands"; (13) "Wildlife"; (15) "Yard and Garden"; (16) "Recommended Reading"; (17) "Recycling Pages"; (18) "Paper vs. Plastic"; (19) "Understanding Plastic Recycling"; (20) "The Power of Personal Choice"; (21) "Experiments/How To Use Less Stuff"; and (22) "Questions and Answers." (CCM)

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Earth & Us Green Pages

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"When we try to pick out anything by itself, we find it hitched to everything else in the Universe."

John Muir – *Founder of the Sierra Club, My First Summer in the Sierra, 1911*

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We hope you'll enjoy the Earth & Us **Green Pages** as part of KUED's campaign to encourage you to take individual steps towards an environmentally friendly lifestyle. It's simply a matter of taking the time to make wise choices. We hope this guide will become a valuable resource to you as you seek to reduce, reuse, recycle and RETHINK the way you live.

A new effort is underway to integrate all available information, tools, and resources to help individuals, neighborhoods, and communities live in a cleaner, healthier environment. In these **Green Pages**, you will be linked to useful resources on both the national and local level that can provide you with information and opportunities to protect our environment. We have included titles of organizations, brief descriptions, telephone numbers, and web site addresses where available.

The **Green Pages** is meant to be a springboard to greater involvement in protecting our natural resources. We hope you'll incorporate this new information to create positive change.

Earth & Us on KUED is funded nationally through a grant from the Corporation for Public Broadcasting and:

Public Television Outreach Alliance

CONCERN for Sustainable Communities

Earth & Us on KUED is locally funded by:

UTAH POWER
A PacifiCorp Company

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www.kued.org/inthecommunity/earth&us/greenpages

Special Note

In an effort to avoid duplication of other resource guides we refer you to two outstanding resource books:

Sustainable Landscapes & Gardens: The Resource Guide. Wes Groesbeck and Jan Striefel, Environmental Resources, Inc. 1996. The guide contains 2,106 listings in 11 divisions filled with sources, products, and materials that are energy-efficient, ecologically-safe, and will support a healthier Utah.

Useful Internet Addresses for Sustainable Builders, Designers & Planners. Wes Groesbeck. Environmental Resources, Inc. 1997. Avoid the need to "surf the net" looking for information instead you'll find direct web page addresses in 27 categories from Agriculture to Sustainable Communities to Wildlife.

Both books are available from Environmental Resources, Inc. (801) 485-0280.

Special Thanks

We would like to thank the Utah Society for Environmental Education, Department of Environmental Quality, the KUED Earth & Us community committee and everyone who contributed to the guide (you know who you are!)

Disclaimer

We have taken special care in preparing the listings for this guide. We are not responsible for the completeness or the suitability of the listings. We did not intend to list all civic groups, community organizations, government agencies, and materials related to the environment. No implied endorsement of any listing is intended nor any criticism by their omission.

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AGRICULTURE

(See also Earth and Yard & Garden)

Agriculture In The Classroom

Agriculture in the Classroom is designed to help students understand how agriculture influences their lives.

(435) 797-1657 or **visit the web at** ext.usu.edu/aitc

Alternative Farming Systems Information Center

AFSIC provides inexpensive access to sustainable agriculture information.

(301) 504-6559 or **visit the web at** www.nalusda.gov/afsic

Environmental Working Group

EWG's web page contains information regarding sustainable agriculture and organic gardening.

visit the web at www.ewg.org

National Agricultural Library

Explore the largest agricultural library in the world.

(301) 504-5479 or **visit the web at** www.nalusda.gov

National Pesticide Telecommunications Network

NPTN provides pesticide information and emergency assistance to the general public, medical, and business communities.

(800) 858-7378 or **visit the web at** www.ace.orst.edu/info/nptn

Natural Resources Conservation Service

The NRCS works with farmers and ranchers to promote conservation practices that protect natural resources, ensure water quality, and develop wildlife habitat.

(801) 524-5050 or **visit the web at** www.ut.nrcs.usda.gov

Permaculture Institute Of Northern California

PINC's web page contains information regarding sustainable agriculture and organic gardening.

visit the web at http://pomo.nbn.com/people/pinc

U.S. Department Of Agriculture

visit the web at www.usda.gov

U.S. Department Of Agriculture & Food

Utah's DAGF focuses on ground water management, protection of river, pond and small lake banks, and non-point source pollution. DAG provides information on wise energy usage, solar power, and energy alternatives.

(801) 538-7098 or **visit the web at**: www.ag.state.ut.us

Utah Farm Bureau Federation

The Federation provides free farm tours at sites and locations throughout the state. Reservations needed. School size groups welcome.

(801) 233-3010 or **visit the web at** www.fb.com/utfb/

Utah State University Extension

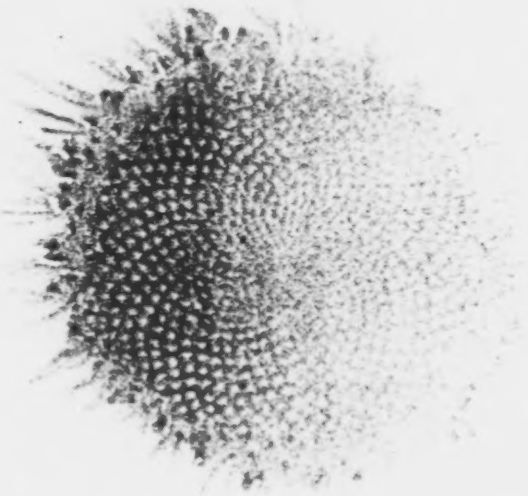
Utah's local area cooperative extension service provides information on a variety of environmental issues: water, air, energy, youth, family, and agriculture.

(435) 797-2200 or **visit the web at** ext.usu.edu

World Water And Climate Atlas For Agriculture

A tool for anyone interested in rainfall and water harvesting, the Atlas is being developed by the Utah Climate Center, Utah State University. The Atlas provides a summary of precipitation and temperature data for the period 1961-1990.

visit the web at http://climate.usu.edu



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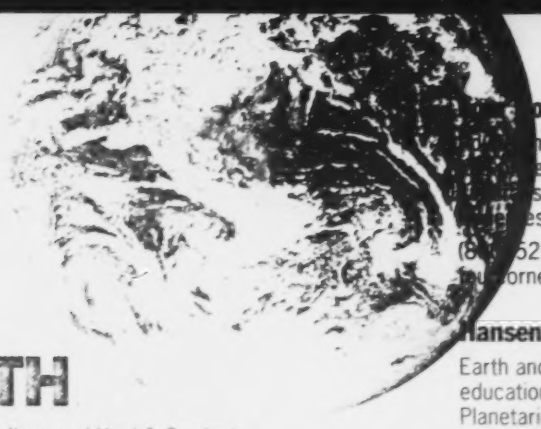

EARTH

(See also Agriculture and Yard & Garden)

Abandoned Mine Reclamation Program

DNR's Division of Oil, Gas & Mining has produced a video with Bureau of Land Management entitled, "Utah's Abandoned Mines: Stay Out and Stay Alive."

(801) 538-5305 or **visit the web at** www.nr.state.ut.us/dogm.htm.

Canyonlands Field Institute

Based in Moab, the Institute provides outdoor educational programs for children and adults on geology, ecology, and environmental issues facing the Colorado Plateau. Programs involve hiking and rafting.

(800) 860-5262 or **visit the web at** www.canyonlandsfieldinst.org

Department Of Natural Resources

Utah's DNR regulates the exploration, development, and reclamation of oil, gas, coal, and other minerals and ensures that oil and gas wells are properly abandoned and mining sites are reclaimed.

(801) 538-7200 or **visit the web at** www.nr.state.ut.us/OGM/anlrpt96.htm

Earth Science Museum

Experience the Jurassic Period with mounted dinosaur skeletons, murals, a dinosaur egg an active paleo lab and a fossil touch table. Located on the Brigham Young University campus.

(801) 378-3680

Friends Of Great Salt Lake

FOGSL is dedicated to the protection and preservation of Great Salt Lake's ecosystem through education, research, and advocacy. Lecture series, newsletter, and field trips are available.

(801) 582-1496 or **visit the web at** www.xmission.com/~fogsl

orners School Of Outdoor Education

nd youth may participate in hands-on field programs ects in archaeology, geology, environmental and studies, photography and writing, natural history, and ess advocacy.

(8 525-4456 or **visit the web at** www.miraclemile.com/ orners/

Hansen Planetarium

Earth and space exhibits, star and laser shows, and educational science demonstrations are all part of the Planetarium experience.

(801) 538-2104 or **visit the web at** www.utah.edu/planetarium

Intrigue Of The Past

Intrigue of the Past, sponsored by the Bureau of Land Management, offers teacher training workshops for grades 4-12, and encourages students to take responsibility and act thoughtfully toward our archaeological heritage.

(801) 539-4060 or **visit the web at** at www.blm.gov/

Natural Resources Conservation Service

The NRCS works with farmers and ranchers to promote conservation practices that protect natural resources, ensure water quality, and develop wildlife habitat.

(801) 524-5050 or **visit the web at** www.ut.nrcs.usda.gov

U.S. Geological Survey

visit the web at www.usgs.gov

Utah Geographic Alliance

The Alliance has produced an educational CD-ROM of Utah including ecoregions, wildlife, wildlife habitats, and a selection of resources and maps of Utah regions.

Visit the web at www.usu.edu/~cliff/UGA.html

Utah Geological Survey

A division of Utah's DNR, the Survey encourages a richer and safer Utah by accumulating geological, paleoecological, paleontological, and archaeological data.

(801) 537-3300 or **visit the web at** www.ugs.state.ut.us/

Utah's National Parks and Monuments

The National Park Service manages all but one (Grand Staircase) of Utah's National Parks and Monuments including: Zions, Bryce Canyon, Arches, Dinosaur, Canyonlands, etc.

(303) 969-2000 or **visit the web at** www.nps.gov

Utah Museum Of Natural History

Located on the U of U campus, the museum offers a variety of programs and learning opportunities on-site and in the natural world. The museum offers youth classes for ages 4 to 12 years old and an adult lecture series. "Utah Natural History" is a periodical produced twice-yearly with a calendar of events.

(801) 581-6927

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Utah Seismic Safety Commission

The Commission promotes earthquake safety in order to save lives, prevent injuries, protect property and the environment, and reduce social and economic disruption due to earthquakes.

(801) 538-3400

Utah State Historical Society

The museum offers photograph exhibits that cover a wide range of subject material, from the history of mining to ghost towns in Utah.

(801) 533-3517 or **visit the web at** www.history.state.ut.us

World Water And Climate Atlas For Agriculture

A tool for anyone interested in rainfall and water harvesting, the Atlas, developed by the Utah Climate Center at Utah State University, provides a summary of precipitation and temperature data for the period 1961-1990.

visit the web at http://climate.usu.edu

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ENERGY

(See also Home & the Workplace, Transportation)

American Solar Energy Society

ASES is dedicated to advancing solar energy opportunities.

(303) 443-3130 or **visit the web at** www.sni.net/solar/

American Wind Energy Association

AWEA advocates the development of wind energy as a reliable, environmentally superior energy alternative.

(202) 383-2500 or **visit the web at** www.igc.apc.org/awea

Center For Renewable Energy And Sustainable Technology

An education and training facility, CREST was established to demonstrate today's renewable energy and energy-efficient technology.

visit the web at www.solstice.crest.org

Clean Cities & Alternative Fuels Hotlines

The hotline provides information on federal legislation dealing with alternative transportation fuels and vehicles. Businesses and government entities can join Clean Cities in order to accelerate and expand the use of alternative fueled vehicles and help improve air quality.

(800) 423-1363 or **visit the web at** www.gs.state.ut.us/clean.htm

Cool Communities

The program promotes strategic tree planting, landscaping and the use of light-colored building and street surfacing to reduce the urban heat island effect, improve air quality, and enhance the environment.

(801) 538-8610 or **visit the web at** www.eren.doe.gov/cities_counties/coolcit.html

Energy Efficient Building Association

EEBA provides information that helps homes and commercial buildings use energy wisely, benefitting consumers, the economy, and the environment.

(612) 851-9440 or **visit the web at** www.eeba.org

Energy Hotline And Public Information

Brochures, booklets, and other reference materials are provided to help Utah consumers make informed energy decisions. Topics include: energy-efficient home construction, insulation techniques, recycling, state-of-the-art lighting technologies, and home energy auditing.

(800) 662-3633 or (801) 538-8690 or **visit the web at** www.eren.doe.gov/cities_counties/coolcit.html

Internet Sites

Energy Efficiency and Renewable Energy Network offers a premier site on sustainable energy issues, a joint project of three national laboratories.

visit the web at www.eren.doe.gov

FORESTS & PLANTS

(See also Yard & Garden)

American Forests

One of the oldest and largest conservation organizations in the U.S., American Forests educates the public about the benefits of trees and forests. Operating projects include: Global ReLeaf 2000 and the National Big Trees Register.

(202) 955-4500 or **visit the web at** www.amfor.org

Center For Plant Conservation

CPC coordinates a network of twenty botanical gardens and arboretums that collect and maintain the National Collection of Endangered Plants.

(314) 577-9450 or **visit the web at** www.mobot.org/cpc

Citizens' Committee To Save Our Canyons

The Committee encourages national and local governments and their executive agencies to make decisions in favor of the public long-term interest in open space and disbursed recreation.

(801) 363-7283 or **visit the web at** www.saveourcanyons.org

Cool Communities

The program promotes strategic urban tree planting, landscaping, and the use of light-colored building and street surfacing to reduce the urban heat island effect, improve air quality, and enhance the environment.

(801) 538-8610 or **visit the web at** www.amfor.org or www.eren.doe.gov/cities_counties/coolcit.html

Forest Stewardship Council

The Council supports environmentally appropriate, socially beneficial, and economically viable management of the world's forests.

visit the web at www.goodwood.org/goodwood/goodwood_list/cert_agencies/fsc.html

Global Environmental Options

GEO works with national parks and gateway communities to protect natural resources and support gateway greening efforts. A number of parks have developed greening initiatives including the Grand Canyon, Ft. Baker, Yosemite, Denali, Presidio, and Yellowstone National Parks.

visit the web at www.greening.org

Good Wood Alliance

The Alliance encourages forest conservation through responsible wood use.

visit the web at www.goodwood.org/goodwood/

National Energy Foundation

NEF creates and distributes instructional materials dealing with energy, the environment, and natural resources. The materials and programs enhance existing school curriculum. Activity guides, books, lesson plans, posters, newsletter "The ENERGIST," and teaching kits are available.

(801) 539-1406 or **visit the web at** www.nef1.org

National Renewable Energy Foundation

NREL's mission is to lead the nation toward sustainable energy technologies, improving energy efficiency, advancing related science and engineering and facilitating commercialization.

(303) 275-4090 or **visit the web at** www.nrel.gov

Utah Office Of Energy Services

UOES is the resource for energy information in Utah. UOES sponsors programs such as Cool Communities, Renewable Energy, the Public Building Energy Efficiency Program, and Commercial/Industrial Energy Efficiency Program designed to improve energy efficiency and reduce utility costs.

(801) 538-8690 or (800) 662-3633 or **visit the web at** www.aste.usu.edu/docs/index.htm

Renewable Energy Tax Credits

Tax credits promote the installation of technologies in residences and businesses that harness solar, wind, hydro and biomass energy resources. Credits up to $1,500 are available for residential installations and up to $25,000 for commercial installations.

(801) 538-5428 or **visit the web at** www.nr.state.ut.us/energy/home.htm

Rocky Mountain Institute (RMI)

RMI's Green Development Services program works with architects, builders, developers, and property managers to encourage cost-effective, state-of-the-art construction — thereby saving energy, water, and materials.

(907) 927-3851 or **visit the web at** www.rmi.org

U.S. Department Of Energy

DOE provides information related to energy use in homes and renewable technologies.

(800) 363-3732 or **visit the web at** www.doe.gov

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Great Basin Environmental Education Center

Operated by Snow College, the EE Center is ten miles up Ephraim Canyon on the Wasatch Plateau. Classes offered include backpacking, cycling, ecology, etc.

(435) 283-7261 or **visit the web at** www.snow.edu

National Arbor Day Foundation

The Foundation offers a variety of materials for 2nd and 3rd graders with a teacher's guide designed for a one-to-two week instructional program used as a science supplement or taught independently. Posters, tree seed packets in classroom quantities, film strips, audio tapes and bimonthly newsletters are available.

(800) 789-8629 or **visit the web at** www.arborday.com

The Nature Conservancy Of Utah

The Utah chapter owns and manages several rare plant preserves in the state, protecting such globally threatened species as the clay phacelia and autumn buttercup.

(801) 531-0999

Ogden Nature Center

The Center offers a diversity of native plant communities and plants on its 127 acre sanctuary. Enjoy its formal gardens designed to attract wildlife and the sanctuary ground occupied by a variety of wildlife.

(801) 621-7595

Project Learning Tree

Project activities supplement lessons in social studies, science, math, language arts, fine arts, health, and other subjects, using trees and forests as a focal point.

(801) 328-4PLT (758)

Red Butte Garden & Arboretum

The Botanical Garden is one of 21 participating institutions in the Center for Plant Conservation, an organization dedicated to the preservation of rare and endangered plants in the United States.

The Arboretum features mature tree specimens, and a 1,500 acre urban forest known as the University of Utah campus arboretum, with over 8,000 trees planted since 1930.

(801) 581-5322 or **visit the web at** www.utah.edu/redbutte

Seacology Foundation

The Foundation was created to protect ecosystems and cultures. Seacology scientists include world experts in endangered species, island flora and fauna, and island ecosystems. All donated funds go directly to worldwide projects.

(801) 489-1728 or **visit the web at** www.seacology.org

Tread Lightly/Leave No Trace

Designed to increase awareness of low-impact, off-highway vehicular travel on public and private lands, Tread Lightly/ Leave No Trace discusses principles, ethics, soils and erosion, plant succession, wildlife, fire, etc. Leave No Trace teaches low-impact practices when hiking and camping.

(800) 332-4100 or **visit the web at** www.Lnt.org

TreeUtah

TreeUtah involves students and citizens in community forest and ecological restoration projects and teaches the importance of trees, urban forests, natural ecosystems, and biological diversity.

(801) 364-2122 or **visit the web at** www.treelink.org

U.S. Forest Service

The Forest Service manages the national forest lands throughout Utah.

(801) 524-4126 or **visit the web at** www.fs.fed.us

Utah Botanical Gardens

The gardens located in Farmington provide a unique opportunity to see plants change throughout the seasons.

(801) 451-3204

Utah Department Of Natural Resources Programs

DNR's mission is to conserve, protect, and develop the natural resources of the state of Utah.

(801) 538-7200 or **visit the web at** www.nr.state.ut.us

Utah Division Of Forestry, Fire & State Lands

A Utah DNR division that manages Utah's forestry and fire prevention programs, sovereign lands and mineral leasing on non-trust state lands.

(801) 538-5555 or **visit the web at** www.nr.state.ut.us/slf/slfhome.htm

Utah Native Plant Society

Founded in 1978 for the purpose of conserving Utah's native plants, the Society holds monthly meetings, with presentations November-May; field trips June-September; and an annual October dinner. Topics range from cacti of Utah and how to garden with natives, to Uinta Wildflowers and UFO Slide Night. Four chapters: Salt Lake Valley, Cache Valley, Utah Valley and Price.

(801) 581-3744

Utah's National Parks and Monuments

The National Park Service manages all but one (Grand Staircase) of Utah's National Parks and Monuments including: Zions, Bryce Canyon, Arches, Dinosaur, Canyonlands, etc.

(303) 969-2000 or **visit the web at** www.nps.gov/dsc/dsgncnstr

Wasatch Front Forum

The Forum sponsors a monthly panel discussion held on the second Tuesday of each month, with Q & A and social gathering, October through March. Sponsored by a dozen different conservation and civic groups, the Forum provides opportunities for Utahns to learn more about the natural history of the Wasatch Front and the legal, political, and social issues facing public land managers and local governments.

(801) 272-2598

HOME & THE WORKPLACE

(See also Sustainable Communities & the Recycling Pages)

American Institute Of Architects/ Committee On The Environment

(Utah Chapter)

The AIA's COTE works to create sustainable buildings and communities by advancing and advocating environmental knowledge and values to architects and the public.

(801) 532-1727 or **visit the web at** www.aiaonline.com

Asbestos Prevention Program

DEQ's Division of Air Quality distributes information on asbestos for owners and occupants of public and commercial buildings in Utah.

(801) 536-4000 or **visit the web at** www.eq.state.ut.us/eqair/haps/asbestos/asbestos.htm

Center For Resourceful Building Technology

CRBT promotes resource-efficient building, design, materials, and construction through demonstration projects. CRBT's demonstration project, the ReCRAFT 90 home boasts innovative recycled building materials.

(406) 549-7678 or **visit the web at** www.montana.com/crbt

Childhood Lead Poisoning Prevention Program

The program offers information concerning home remodeling/painting from the National Lead Information Center.

(801) 468-2701

Cool Communities

The program promotes strategic tree planting, landscaping, and the use of light-colored building and street surfacing to reduce the urban heat island effect, improve air quality, and enhance the environment.

(801) 538-8610 or **visit the web at** www.eren.doe.gov/cities_counties/coolcit.html

Division Of Drinking Water

A Utah DEQ Division ensuring safe drinking water supplies for all public drinking water systems.

(801) 536-4200 or **visit the web at** www.eq.state.ut.us/eqdw/welcome.htm

Energy Efficient Building Association

EEBA provides information that helps homes and commercial buildings use energy wisely, benefitting consumers, the economy, and the environment.

(612) 851-9940 or **visit the web at** www.eeba.org

Indoor Air Quality Information Clearing House

EPA's Indoor Air Quality Information Clearing House is a primary contact for consumers and professionals. Clearing House provides information on the health effects of indoor air pollutants, testing, measuring, and controlling or minimizing air-quality problems.

(800) 438-4318 or **visit the web at** www.epa.gov/iaq/iaqinfo.html

Lead Paint Program

DEQ's Division of Air Quality supplies information to the public about lead-base paint issues.

(801) 536-4451 or **visit the web at** www.eq.state.ut.us/eqair/haps/asbestos/asbestos.htm

Radon Program

DEQ's Division of Radiation Control offers a program that describes the "how to" of installing cost effective radon control systems in new home construction. A four-hour course for real estate agents and appraisers is also offered for continuing education credit.

(800) 458-0145 or (801) 536-4250 or **visit the web at** www.eq.state.ut.us/eqrad/radon.htm

Real Goods Trading Company

A mail order company, Real Goods specializes in renewable energy and conservation appliances as well as other environmentally friendly products.

(800) 762-7325 or **visit the web at** www.realgoods.com

Red Butte Garden & Arboretum

Red Butte Garden provides information on drought-tolerant plants and water conserving gardening techniques. Classes, workshops, field trips, and lectures offer topics in botany and home landscaping.

(801) 581-5322 or **visit the web at** site www.utah.edu/redbutte

Rocky Mountain Materials Exchange

The concept "one business' waste is another's raw material" is the cornerstone of the Exchange. RMMeX serves as a regional clearing house for a variety of businesses, government agencies, cities, schools, non-profit organizations, and citizen groups to exchange both solid and hazardous materials as a means of pollution prevention, waste minimization, and recycling.

(303) 297-0180 x 103 or **visit the web at** www.rmmex.com

Utah Occupational Safety & Health

OSH provides information describing building owner and employer responsibilities under the new OSHA Asbestos Standards.

(801) 530-6901 or **visit the web at** www.ind-com.state.ut.us/uosha.htm or www.osha.gov

Small Business Assistance

DEQ's small business assistance program aids in complaint research and resolution, public outreach, policy awareness, and education. The 1990 Clean Air Act Amendments placed new provisions on businesses to improve the air we breathe and many are unaware of their new obligations under these requirements.

(800) 458-0145 or (801) 536-4479 or **visit the web at** www.eq.state.ut.us/eqair/sbap/sbap3.htm

JUST FOR FUN

Children's Museum Of Utah

The museum offers activities that include science, technology, and nature demonstrations, as well as hands-on exhibits.

(801) 328-3383

City Creek Natural Area

This premier nature experience for tourists and residents alike is within a mile of the State Capitol building in SLC. To find the trailhead, either walk down Bonneville Boulevard northeast from the Capitol, or head north on B Street to 11th Avenue and follow Bonneville Boulevard north to the trailhead. Accessible year round; automobiles welcome on alternate days.

(801) 483-6797

College Of Easter Utah Prehistoric Museum

The museum has two halls: the Hall of Dinosaurs, containing seven complete dinosaur skeletons; and the Hall of Man, with artifacts and dioramas showing life in Utah from over 10,000 years ago to historic times. Self-guided tours are available with many hands-on exhibits.

(435) 637-5060

Dimple Dell Regional Park

The park, a 640-acre natural area along Dry Creek in southeastern Salt Lake County, is a wonderful place for families to visit year round. Explore three-and-a-half miles of wood chipped hiking trails and experience one of the few places left in the Salt Lake Valley where one can see the native plants and animals of the pre-settlement landscape.

(801) 468-2299

Dinosaur National Monument

Enjoy the quiet, uncrowded monument where visitors can camp, hike nature trails, fish, watch birds, backpack, and run white water rivers. Kids of all ages will love the dinosaur exhibits and a variety of activities.

(970) 374-3000

Earth Science Museum

Located on the Brigham Young University campus, the museum features the Jurassic Period with mounted dinosaur skeletons, murals, a dinosaur egg, an active paleo lab, and a fossil touch table. Guided or self-guided tours available.

(801) 378-3680

Great Basin Environmental Education Center

Operated by Snow College, the EE Center is ten miles up Ephraim Canyon on the Wasatch Plateau. Classes offered include backpacking, cycling, ecology, etc.

(435) 283-7261 or **visit the web at** www.snow.edu

Hansen Planetarium

A visit to the Hansen Planetarium is a visit to the universe. The star shows, earth, and space exhibits, and daily laser concerts are a fun destination in downtown Salt Lake City.

(801) 538-2104 or **visit the web at** www.utah.edu/planetarium

Hardware Ranch

The elk winter range with wildlife viewing site and visitor center are open mid-December through March depending on snow. Educational programs available by reservation.

(435) 753-6206 or **visit the web at** www.nr.state.ut.us/dwr/homeypg.htm

Hogle Zoo

Take a safari at Utah's Hogle Zoo and discover the wonders of the wild. With over 1,200 exotic mammals, birds, reptiles and amphibians, the Zoo is a perfect place to get in touch with your "wild side."

(801) 582-1631 or **visit the web at** www.xmission.com/~hoglezoo/

Jordan River Parkway Trail System

Experience the outstanding urban trail system along the banks of the Jordan River, with asphalt and gravel pathways, shade trees, bridges, and wildlife such as beaver, muskrats, and ducks. For specific information on completed sections of the trail contact the specific city and their Parks & Recreation office.

Current popular access to completed sections of the parkway trail include the following points of entry:

- Jordan River State Park (Salt Lake City) is a 4.8 mile segment of the parkway trail following the river from North Temple to 2200 North where a variety of songbirds, shorebirds, and waterfowl can be spotted year round. (801) 533-4496
- Arrowhead Park Trailhead (Murray City) begins at 4800 South and approximately 900 West and travels south to 6400 South and 1100 West. (801) 264-2614
- Winchester Park Trailhead (Murray City) begins at 6400 South and the Jordan River at approximately 1100 West. (801) 264-2614
- Gardner Village Trailhead (West Jordan City) begins with a fenced, paved trail on the north side of 7200 South at the historic Gardner Mill, and proceeds north on the west bank of the river toward 7100 South, joining the Murray City trail. (801) 569-5090
- James Madison Park Trailhead (Salt Lake County) begins at 3300 South and the Jordan River, going along the east side of the river to 3900 South through the Little Dell wetlands site. (801) 483-5473
- The Redwood/Oxbow Area Trailhead (Salt Lake County) begins at 1100 West and 3100 South (access via 3300 South), leading over a bridge behind the County Oxbow Jail facility, and into a wildlife wetland complex. (801) 483-5473

Ogden Nature Center

For an enjoyable family outing, visit the Nature Center and experience hands-on exhibits, quiet walking trails, view resident wildlife, take community education classes, or browse through the gift shop with nature-related gifts. Yearly events include an annual birdhouse exhibit, Jr. Duck Stamp contest, March for Parks, and a Summer Solstice Celebration.

(801) 621-7595

North Fork Environmental Center

Located in the North Fork of Ogden Canyon and operated by the Weber School District, students K-3rd grade may stay for the day, and students 4th grade and up may stay overnight at the Center. In the summer, science, music, and language classes are taught. During school months, on-site administrators may assist teachers with nature hikes, snowshoeing, cross country skiing, and environmental education activities.

(801) 745-2057

Stokes Nature Center in Logan Canyon

Located along the Logan River, at the mouth of the Logan Canyon, this nature center offers Saturday, evening, and summer programs for learners of all ages. Programs focus on ecology and the natural and cultural history of the area.

(435) 755-3239

Red Butte Garden And Arboretum

Experience the great outdoors within minutes of downtown SLC. Enjoy 30 acres of formal display gardens, 200 acres of natural areas, 1,500 acres of arboretum and four miles of hiking trails. Also available are "Walks with a Naturalist," summer concerts, and festivals.

(801) 581-5322 or **visit the web at** www.utah.edu/redbutte

Tracy Aviary

Located on seven wooded acres, the Aviary displays over 1,000 native, exotic, and endangered birds from all parts of the world. Birds of a Feather is a free-flying bird show with 50 trained birds offered May through September. Enjoy interactive experiences with parrots in the Lory Walk. Field trips, school, scouting, and public classes available.

(801) 322-2473

Utah State Parks And Recreation

Utah's Department of Natural Resources Parks and Recreation programs, events and activities are designed to protect and preserve Utah's 45 state parks.

(801) 538-7220 or **visit the web at** www.nr.state.ut.us/parks/utahstpk.htm

Utah Museum Of Natural History

Located on the U of U campus, the museum offers a wide variety of programs and learning opportunities on-site and in the natural world. Youth Classes for kids 4-to-12-years old and an adult lecture series are available. "Utah Natural History," is a periodical produced twice-yearly with a calendar of events.

(801) 581-6927

Utah State Fish Hatcheries

The State of Utah has ten production fish hatcheries throughout the state. A free packet containing a variety of information and activities is available for scout leaders and other such educators. Most of the hatcheries are open to the public and conduct group tours upon request.

(801) 538-4717 or **visit the web at** www.nr.state.ut.us

Utah State Historical Society

The museum offers tours of the permanent exhibit Utah at the Crossroads, which links yesterday and today. Explore how people, geography, and technology are integral parts in the settlement and development of Utah.

(801) 533-3517 or **visit the web at** www.history.state.ut.us

Utah Society For Environmental Education (USEE)

USEE develops public awareness about the environment through teacher/public resource centers and programs. Resource centers located in Cache Valley, Salt Lake and St. George (see SORCE) offer hard to find and expensive materials available at no cost. USEE's newsletter, "The Web" includes information on environmental education programs, materials, news, and events.

(801) 328-1549 or **visit the web at** www.sisna.com/usee

USEE's Teacher's Resource Centers

Southwest Outdoor Resource Center for Education is located at the Tanoqunt Nature Discovery Center. To access resources call (435) 635-3604.

North SORCE in the Quinney Library at the College of Natural Resources on the Utah State University campus. To access resources call (435) 797-4051 or **visit the web at** www.teacherlink.usu.edu/hum/northsorce.html

Wasatch Mountain Club

The club consists of a group of adults active in outdoor adventures such as hiking, bicycling, rafting, skiing, and conservation. The club participates in wilderness issues and publishes a monthly newsletter.

(801) 463-9842

Willow Park Zoo

Willow Park is a small zoo with over 100 species located in Logan. Emphasizing native and exotic birds, the zoo offers free onsite tours and outreach programs available for teachers and classroom groups.

(435) 750-9893

Yellowfork Canyon County Regional Park

Explore this secluded and little-known area in the Oquirrh Mountains. Primitive game trails follow along creeks and ravines surrounded by sagebrush, oak, chokecherry, maple, Utah juniper, prickly-pear cactus, mule deer, birds and other wildlife. Exit I-15 at 12600 South and travel toward Harriman; at approximately 6000 West, turn south to Rose Canyon Road and follow to the marked gate.

(801) 483-5473

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LAND USE, CONSERVATION & NATURAL RESOURCES

Bureau Of Land Management

The BLM is responsible for the management of 22 million acres in the state of Utah. They provide brochures, maps and guides on resources including recreation, range, fish and wildlife, wilderness, woodland products, minerals, and watershed.

(801) 539-4001 or **visit the web at** www.blm.gov/

Cern's WWW Virtual Library Environment Page

This site houses one of the largest collections of links to environmental resources, and is subdivided into categories.

(804) 979-5344 or **visit the web at** ecosys.drdr.virginia.edu/Environment.html

Citizens' Committee To Save Our Canyons

Founded in 1972, the Committee encourages national and local governments and their executive agencies to make decisions in favor of the public long-term interest in open space and disbursed recreation. The group networks with other environmental organizations and involves the public in a variety of land use issues.

(801) 363-7283 or **visit the web at** www.soc.org

Friends Of Great Salt Lake

FOGSL is dedicated to the protection and preservation of Great Salt Lake's ecosystem through education, research, and advocacy. Lecture series, newsletter, and field trips are available.

(801) 582-1496 or **visit the web at** www.xmission.com/~fogsl

High Country News

This web site is an online version of the newspaper, complete with an index of past issues organized by topic and searchable by key word. Topics include: monuments, communities, public lands, water, energy, forests, and advocacy groups.

(970) 527-48989 or **visit the web at** www.hcn.org

The Izaak Walton League Of America

One of the country's oldest conservation organizations, the League works to conserve the nation's soil, air, woods, waters, and wildlife through public education and lobbying efforts. Programs include: Save Our Streams, Wetlands Watch, and Outdoor Ethics.

(301) 548-0150 or **visit the web at** www.iwa.org

National Audubon Society

One of the oldest, largest nature appreciation and conservation organizations in the country, the Society is known for its educational programs related to endangered birds, and flight plans of wild birds.

(303) 499-0219 or **visit the web at** www.audubon.org

Natural Resources Defense Council

NRDC publishes a bulletin on environmental legislation, expert analysis of current events, essays and materials for the arm chair activist.

(212) 727-2700 or **visit the web at** www.nrdc.org/nrdc/

The Nature Conservancy Of Utah

In its effort to preserve plants, animals, and natural communities, the Conservancy works with willing sellers of private lands as well as federal land management agencies to protect rare and unique species in Utah.

(801) 531-0999

Project Environment

Project Environment is designed to educate citizens about living green in Utah. If we all put forth effort we will have cleaner air, less waste, and preserve valuable resources for ourselves and future generations.

(800) 485-0145 hotline or (801) 536-4480

Red Butte Garden & Arboretum

Located on the foothills of the Wasatch Mountains in SLC. Red Butte Garden features 30 acres of formal display gardens, 200 acres of natural areas, 1,500 acres of arboretum, and four miles of hiking trails. All are open year-round.

(801) 581-5322 or **visit the web at** www.utah.edu/redbutte

Rocky Mountain Association Of Environmental Professionals

An organization dedicated to exchanging environmental information and education with members in eight states including Utah. Monthly lecture series and an official newsletter available.

(801) 584-6763 or **visit the web at** www.rmaep.org

Southern Utah Wilderness Alliance

SUWA is dedicated to the wise management of public lands on the Colorado Plateau. Through litigation, administrative appeals, and public involvement, it strives to protect these lands in their natural state.

(801) 486-3161 or **visit the web at** www.xmission.com/~suwa

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TreeUtah

TreeUtah involves students and citizens in community forest and ecological restoration projects and teaches the importance of trees, urban forests, natural ecosystems, and biological diversity.

(801) 364-2122 or **visit the web at** www.treelink.org

Take Pride In Utah

A unique organization coordinated by the Department of Natural Resources, Take Pride encourages Utahns to take responsibility for behavior that may negatively impact the environment. Projects include neighborhood clean-ups, removal of graffiti, planting trees, and improving wildlife habitat.

(801) 538-7306 or **visit the web at** www.nr.state.ut.us/tputah/tp.htm

U.S. Environmental Protection Agency

EPA's mission is to protect human health and to safeguard the natural environment, air, water, and land upon which all life depends.

visit the web at www.epa.gov

Utah Division Of Parks And Recreation

Parks and Recreation sponsors programs, events, and activities designed to promote, protect, and preserve Utah's 45 state parks.

(801) 538-7220 or **visit the web at** www.nr.state.ut.us/parks/utahstpk.htm

Utah Society For Environmental Education (USEE)

USEE develops public awareness about the environment through teacher/public resource centers and programs. USEE's newsletter, "The Web" includes information on environmental education programs, materials, news, and events. Resource centers located in Cache Valley, Salt Lake, and St. George (see SORCE) offer hard to find and expensive materials available at no cost.

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North SORCE in the Quinney Library at the College of Natural Resources on the Utah State University campus. To access resources call (435) 797-4051 or **visit the web at** www.teacherlink.usu.edu/hum/northsorce.html

Wasatch Front Forum

The Forum sponsors a monthly panel discussion the second Tuesday of each month, with Q & A and social gathering, October through March. Sponsored by a dozen different conservation and civic groups, the Forum provides opportunities for Utahns to learn more about the natural history of the Wasatch Front and the legal, political, and social issues facing public land managers and local governments.

(801) 272-2598

POLLUTION & WASTE MANAGEMENT

(See also Home & the Workplace)

Clean Cities & Alternative Fuels Hotlines

Hotlines provide information on federal legislation dealing with alternative transportation fuels and vehicles. Businesses and government entities can join Clean Cities in order to accelerate and expand the use of alternative-fueled vehicles and help improve air quality. (800) 423-1363 or **visit the web at** www.gs.state.ut.us/clean.htm

Current Air Pollution Information

DEQ's Air Monitoring Center operates CAPI, an air-monitoring program, that offers current air pollution information to Utah residents. (801) 533-7239 or (800) 228-5434 or **visit the web at** www.eq.state.ut.us/eqamc/api.htm

Future Moves Coalition

The Coalition focuses on the impact of population growth on the Wasatch Front. Issues include: transportation systems and their consequences, developing a plan for a balanced transportation system, an integrated planning model, advocacy, and public education. (801) 355-7085 or **visit the web at** www.xmission.com~/future/

Hazardous Waste Ombudsmen Program

The Program resolves complaints about the EPA's Hazardous Waste Programs. (800) 262-8937 or **visit the web at** www.epa.gov

Mineral Policy Center

MPC is an essential resource center for information on the environmental impact of mining with a complete range of services for both the general public and professionals.

(202) 887-1872 or **visit the web at** www.mineralpolicy.org

The National Pollution Prevention Roundtable

The Roundtable is the largest membership organization in the U.S. devoted solely to pollution prevention.

(202) 466-7272 or **visit the web at** www.p2.org/index.html

Pollution Prevention Information Clearinghouse

The Clearinghouse distributes EPA documents and other fact sheets and articles on solid waste, source reduction and recycling. (202) 260-1023 or **visit the web at** www.epa.gov

Pollution Prevention Program

The Utah Department of Environmental Quality offers a non-regulatory program to assist businesses and citizens with pollution prevention. The program demonstrates that practical, pro-active means of protecting human health and the environment can also be cost effective.

(800) 458-0145 or (801) 536-4480 or **visit the web at** www.eq.state.ut.us/eqoas/p2/p2_home.htm

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RCRA/UST/EPCRA/Superfund Hotline

These hotlines will answer - or will refer you to appropriate resources for te-related question from land disposal restrictions to the location of hazardous waste facilities and recycling to leaking underground storage tanks and toxic emissions. RCRA/UST (800) 424-9346

EPCRA/Superfund (800) 424-9346 or **visit the web at** www.epa.gov/epaoswer/hotline - DEQ state programs (800) 458-0145 or **visit the web at** www.eq.state.ut.us/eqerr/errhmpg.htm

Sierra Club (Utah Chapter)

The Sierra Club is a grassroots organization actively protecting wild places, habitats, global environmental quality, and sustainable use of resources. Current local focus is on growth issues of sprawl, transportation, open space, clean air, toxics, global warming and wilderness. Local chapter provides information, speakers, and outing opportunities.

(801) 467-9297 or **visit the web at** www.sierraclub.org/ or www.toowarm.org/

Smoking Vehicle Program

This program sponsored by Salt Lake City/County Health Department, encourages citizens to report smoking vehicles in an effort to-reduce harmful visible exhaust. To report a smoking vehicle provide the license plate number, date, time, location vehicle was seen, and if possible, make of vehicle.

(801) 944-SMOG (7664)

U.S. Pollution Control, Inc.

USPC handles treatment, storage, and disposal of hazardous wastes. (801) 252-2020

Utah Division Of Solid/Hazardous Waste Management

Utah DEQ's Division of Solid/Hazardous Waste is responsible for waste management permitting of solid and hazardous waste facilities. (801) 538-6170 or **visit the web at** www.eq.state.ut.us/eqshw/dshw-1.htm

Utah Used Oil Program

Utah Department of Environmental Quality, Division of Solid/Hazardous Waste conducts a used oil and recycling program. Location of disposal places provided for the public.

(800) 458-0145

Wasatch Clean Air Coalition

The Coalition, representing various citizen groups, focuses on air quality issues and also conducts educational lectures in the schools. Bi-monthly meetings and newsletter available.

(801) 583-8654

SUSTAINABLE COMMUNITY

(See also Home & the Workplace)

American Institute Of Architects/ Committee On The Environment

The national AIA's COTE works to create sustainable buildings and communities by advancing and advocating environmental knowledge and values to architects and the public. Local AIA Society monthly Thinking Green meetings are open to the public. (801) 532-1727 or **visit the web at** www.aiaonline.com/

Center For Excellence For Sustainable Development

A U.S. Department of Energy program that helps communities design and implement strategies to improve their environment, quality of life, and economies.

(800) 357-7732 or **visit the web at** www.crest.org/doe/sustainable

Citizens' Committee To Save Our Canyons

The Committee encourages national and local governments and their executive agencies to make decisions in favor of the public long-term interest in open space and disbursed recreation.

(801) 363-7283 or **visit the web at** www.saveourcanyons.org

Concern

Concern promotes environmental literacy and action by training individuals to be effective community advocates for policies and programs. The Sustainable Communities Database contains information on more than 5,000 projects and publications.

(202) 328-8160 or **visit the web at** www.sustainable.org

Earth Pledge

Earth Pledge links business interests and environmental, social, and cultural concerns. The Foundation attempts to build mutually beneficial partnerships by encouraging economic growth through the development of sustainable practices.

(212) 688-2216 or **visit the web at** www.earthpledge.org/

ECONET

ECONET serves organizations and individuals concerned with environmental preservation and sustainability.

visit the web at www.econet.apc.org/econet/

Energy Information Administration

An independent statistical and analytical agency within the U.S. Department of Energy, EIA maintains a comprehensive data and information program relevant to energy resources, reserves, production, demand, technologies, and financial information.

(202) 586-8800 or **visit the web at** www.eia.doe.gov/

Environmental Resources, Inc.

The company publishes Sustainable Landscapes and Gardens: The Resource Guide by Wesley A. Groesbeck and Jan Striefel. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products, and materials divided into 11 categories.

(801) 485-0280

Future Moves Coalition

The Coalition focuses on the impact of population growth on the Wasatch Front. Issues include: transportation systems and their consequences, development of a plan for a balanced transportation system, an integrated planning model, advocacy, and public education.

(801) 355-7085 or **visit the web at**: www.xmission.com~/future/

Global Action And Information Network (GAIN)

GAIN is a must-use resource for anyone taking action on sustainability issues. GAIN provides background data, analysis, and up-to-date status reports on legislation. Case studies of successful communities and a comprehensive national directory of environmental organizations available.

(408) 457-0130 or **visit the web at** www.igc.apc.org/gain

Global Cities Project

The project is a national clearinghouse for local environmental programs and policies. The group identifies and collects detailed information on practical, cost-efficient programs implemented by local governments nationwide.

(415) 775-0791 or **visit the web at** www.globalcities.org

Global Environmental Options

GEO is a non-profit group providing a comprehensive Web site for the green design community. The site features the Green Building Resource Center, a link library with descriptions, and a bookstore with hundreds of books on sustainable topics.

(801) 483-1635 or **visit the web at** www.geonetwork.org

League Of Women Voters

The League offers literature on various environmental issues. Current focus includes growth issues along the Wasatch Front and Clean Air Act.

(801) 272-8683 or **visit the web at** www.lwv.org

Ogden Nature Center

The Center is built of recycled, resource-efficient, sustainable and low-toxic construction products. Its siding and structural elements were built using salvaged materials. Passive solar energy and cooling strategies were incorporated. The building reflects a respect for nature and a great resource for those interested in building an urban setting yet preserving precious natural resources.

(801) 621-7595

President's Council On Sustainable Development

The program is made up of eight task forces: Eco-Efficiency, Energy & Transportation, Natural Resources, Population & Consumption, Principles & Goals, Public Linkage, Dialogue & Education, Sustainable Agriculture, and Sustainable Communities.

(202) 408-5346 or **visit the web at** www.whitehouse.gov/pcsd

Partnership For The Environment

This Utah Department of Environmental Quality community based program promotes environmental partnerships and sustainable planning by targeting government resources at local environmental issues.

(801) 536-4479 or **visit the web at** www.eq.state.ut.us/partner.htm

RENEW America

RENEW seeks out and promotes successful environmental programs that offer positive constructive models for other communities, governments, and businesses. Analysis of programs available.

(202) 232-2252 or **visit the web at** solstice.crest.org/sustainable/renew_america

Rocky Mountain Institute (RMI)

RMI's Green Development Services program works with architects, builders, developers, and property managers to encourage cost-effective, state-of-the-art construction — thereby saving energy, water, and materials.

(907) 927-3851 or **visit the web at** www.rmi.org

Sustainable Earth Electronic Library

SEEL is a digital library devoted to the collection of publications that educate people on ways to preserve and restore our natural environment. Teachers, students, community groups, government organizations, and activists will find an extensive collection searchable by keyword.

visit the web at www.envirolink.org/pubs/seel/abou.html

Union Of Concerned Scientists

The Union brings sound science into society's decisions about global security, environment, and sustainability issues. Biodiversity, climate change, ozone depletion, and population growth are four issues covered by the Sound Science Initiative.

(617) 547-5552 or **visit the web at** www.ucsusa.org

Wasatch Front Forum

The Forum hosts a monthly panel discussion, held on the second Tuesday of each month, with Q & A and social gathering, October - March. Sponsored by a dozen different conservation and civic groups, the Forum provides opportunities for Utahns to learn more about natural history of the Wasatch Front and the legal, political, and social issues facing public land managers and local governments.

(801) 272-2598

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TEACHER RESOURCES

Adopt-a-Water Body

School groups may "adopt" a local water body. The program has an exciting interdisciplinary approach to natural resource education. Activities may include trail building, stream clean-ups, treeplanting, water quality sampling, and general restoration.

(801) 538-6516 or **visit the web at** www.ag.state.ut.us/npshome/adoptawaterbody.htm

Audubon Adventures

Audobon Adventures are classroom-based programs designed for grades 3 - 6 provided by the National Audubon Society. Classroom cost to join is $35, (often sponsored by a local Audubon Club). Membership includes classroom certificate, student membership cards, reading materials.

Visit the web at www.audubon.org

Canyonlands Field Institute

Based in Moab, the Institute hosts outdoor educational programs for children and adults on geology, ecology, and environmental issues that face the Colorado Plateau. Programs involve hiking and rafting.

(800) 860-5262 or **visit the web at** www.canyonlandsfieldinst.org

Children's Museum Of Utah

The museum offers activities that include science, technology, workshops, and nature demonstrations, as well as hands-on exhibits.

(801) 328-3383

Clear Creek Center (Alpine School District)

The Center is a residential-use facility located near Scofield Reservoir in Central Utah. Community groups may use cottages located in a forest and a large multipurpose structure with classroom facilities used in summer programs organized by outdoor education staff. One-day winter sessions are also available.

(801) 756-8400

College Of Eastern Utah Prehistoric Museum

The Museum offers tours and presentations about prehistory and geology to school groups of all ages. Each presentation is age specific and is designed around the Utah State Core Curriculum. Field trips to the Cleveland Lloyd Dinosaur Quarry in Emery County and Nine Mile Canyon are also available.

(435) 637-5060

Dinosaur National Monument

Four activities are offered for school groups: ranger-led tours of the Dinosaur Quarry, ranger-led geology walks to observe fossils and rock formations, ranger-led explorations of the desert shrub community, and ranger-led activities about prehistoric artifacts and rock art.

(801) 789-2115

Earth Science Museum At Brigham Young University

Experience the Jurassic Period through mounted dinosaur skeletons, murals, a dinosaur egg, an active paleo lab, and a fossil touch table.

(801) 378-3680

Friends Of Great Salt Lake

FOGSL is dedicated to the protection and preservation of Great Salt Lake's ecosystem through education, research, and advocacy. Lecture series, newsletters, and field trips are available.

(801) 582-1496 or **visit the web at** site www.xmission.com/~fogsl

Four Corners School Of Outdoor Education

Hands on field programs and special projects for adults and youth are offered in archaeology, geology, environmental and cultural studies, photography and writing, natural history, and wilderness advocacy.

(800) 525-4456 or **visit the web at** www.miraclemile.com/fourcorners/

Great Basin Environmental Education Center

Operated by Snow College, the EE Center is ten miles up Ephraim Canyon on the Wasatch Plateau. Classes offered include backpacking, cycling, ecology, etc.

(435) 283-7261 or **visit the web at** www.snow.edu

Hogle Zoo

Utah's Hogle Zoo provides many education opportunities to promote wildlife conservation including free admission for Utah schoolchildren, teacher's education packets, and community outreach programs.

(801) 582-1631 or **visit the web at** www.xmision.com/~hoglezoo/

International Office For Water Education

IOWE offers teachers a Teacher's Guide, incorporating student involvement, exploration, concept development, and application. Regional and Utah calendars feature water information and student art work.

(800) 922-4693 or (435) 797-3182 or **visit the web at** www.watered.usu.edu

Intrigue Of The Past

The program, sponsored by the Bureau of Land Management, offers teacher-training workshops for grades 4-12, and encourages students to take responsibility and act thoughtfully towards our archaeological heritage.

(801) 539-4060 or **visit the web at** www.blm.gov/

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KOPE

(Kids Organized to Protect Our Environment)

The KOPE Kids have created recycling exhibits for government groups, city and state fairs, and designed an open space (Hidden Hollow) exhibit for the Children's Museum of Utah. KOPE publishes a newspaper, KOPE Kronical, written by kids for kids about what kids are doing for the environment.

(801) 578-8108

The Lytle Preserve

Owned by Brigham Young University, the 462-acre nature preserve is located in the Mojave Desert in Washington County, Utah. The oasis is available for educational and research purposes only, and can accommodate 25 visitors at one time.

(801) 378-5052

Mill Hollow Center

An overnight residential-use facility operated by the Granite School District, the center is located 63 miles southeast of SLC, situated on the south rim of the Uintas. It is also available for use by community groups. Instructors provide students with outdoor learning activities and experiences, mid-June through mid-October. Amphitheater for campfire programs, sing-a-longs, and a wildlife observation blind is also available.

(801) 481-7208

National Arbor Day Foundation

The Foundation provides a variety of materials for elementary and middle school students with a teacher's guide designed for a one-or-two week instructional program used as a science supplement or taught independently. Posters, tree seed packets in classroom quantities, film strips, audio tapes, and bimonthly newsletter are available.

(800) 789-8629 or **visit the web at** www.arborday.org

National Wildlife Federation

With several million members, the federation is certainly the largest, and one of the most influential, conservation organizations in the U.S. Programs include Cool It! and Corporate Conservation Councils which provide teacher resources for grades K - 6.

(800) 477-5560 or (202) 797-6800 or **visit the web at** www.nwf.org

Natural Resources Conservation Service

The NRCS works to conserve natural resources on private lands. NRCS also provides free educational materials for teachers including "Inch of Soil" posters, "Faces of the Future" videos, and "Conservation Station," a catalog of conservation education materials.

(801) 524-5050 or **visit the web at** www.ut.nrcs.usda.gov.

Nature Conservancy of Utah

The Conservancy has initiated a Youth Education Program designed to help young people understand the interdependence of all species and the need to protect them.

(801) 531-0999

North American Assn. For Environmental Education (NAAEE)

The world's largest association of environmental educators, NAAEE provides copies or discounts on numerous publications including the newsletter "Environmental Communicator." Also provides access to the Skill Bank, a database of members for networking and an invitation to its conference held in a different location in North America each year.

(513) 676-2514 or (202) 884-8912

North Fork Environmental Learning Center

The Center is located in the North Fork of Ogden Canyon and is operated by the Weber School District. Students K - 3rd grade may stay for the day, and students 4th grade and up may stay overnight. In the summer, science, music, language courses are offered. During school months, on-site administrators assist teachers with nature hikes, snowshoeing, cross country skiing, and environmental education activities.

(801) 745-2057

Norwegian School Of Nature Life

The School provides a variety of educational experiences for all ages. Programs include day hikes, cross-country skiing, rafting, and over-nighters which emphasize enjoying nature and low- impact living. The School offers summer programs and weekend programs during school year. School groups are welcome.

(435) 649-5322 or **visit the web at** www.citysearch.com/slc/norwegianschool

Ogden Nature Center

Hands-on field trips led by teachers/naturalists are offered monthly for students K-12 with topics ranging from "Field Ecology" to "Plants and Animals Prepare for Winter," "American Indians and the Land," "Pond Ecology," and more. Programs are two hours in length; $2.25 per student.

(801) 621-7595

The Predator Education Fund

The PEF seeks to preserve and protect mammal predators native to the Intermountain West through education and direct action. The PEF offers information packets to teachers and others on the importance of the predator/prey relationship.

(801) 575-7101 or **email at** utah.predator@worldnet.att.net

Project Environment

DEQ and USEE sponsor a program designed to educate students and teachers how to live green in Utah. The project emphasizes cleaner air, less waste, protecting water, and preserving valuable resources for ourselves and future generations. Lesson packets tied to the state core curriculum are available for grades K - 12.

(800) 458-0145 hotline or (801) 536-4480

Project Learning Tree

Learning Tree activities supplement lessons in social studies, science, math, language arts, fine arts, health and other subjects, using trees and forests as a focal point.

(801) 328-4PLT (758)

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Project WILD

WILD is a conservation education program emphasizing wildlife for grades K-12. WILD capitalizes on the natural interest that children and adults have in wildlife, providing free exciting hands on activities that enhance student learning in all subject and skill areas.

(801) 538-4719 or **visit the web at** www.nr.state.ut.us/dwr/!proj0.htm

Red Butte Garden Arboretum

Half-day outdoor classes are offered for students, and teachers may take workshops designed to meet some of the objectives of the state science curriculum at each grade level. Classes take place in display gardens or on mountain trails that surround the botanical collections.

(801) 581-4760 or **visit the web at** www.utah.edu/redbutte

Stokes Nature Center in Logan Canyon

Located along the Logan River, at the mouth of the Logan Canyon, this nature center offers Saturday, evening, and summer programs for learners of all ages. Programs focus on ecology and the natural and cultural history of the area.

(435) 755-3239

Utah Department Of Environmental Quality Programs (DEQ)

DEQ offers a wide variety of program materials including: Utah Pollution Prevention, Adopt-A-Water-Body, Car-Care for Clean Air, Used Oil Recycling, and Project Environment. K-6 grade level-specific packets are available, and a specially designed pollution prevention workbook is available for 5th grade.

(801) 536-4483 or (801) 328-1549 or **visit the web at** www.eq.state.ut.us

Utah Department Of Natural Resources Programs

DNR's mission is to conserve, protect, and develop the natural resources of the state of Utah.

(801) 538-7200 or **visit the web at** www.nr.state.ut.us

Utah Office Of Energy Services

The Energy Patrol program helps students (3rd - 6th grade) apply energy management techniques while making energy audits "on patrol" in their schools. The Annual Energy Debate uses energy issues to learn debate skills (4th - 9th grade). The Solar Car program provides students with the equipment to construct model cars powered with the suns energy (9th grade).

(800) 662-3633 or (801) 538-8666 or **visit the web at** www.aste.usu.edu/docs/index.htm

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Utah Society For Environmental Education (USEE)

USEE develops public awareness about the environment through teacher/public resource centers and programs. USEE's resource centers located in Cache Valley, Salt Lake, and St. George (see SORCE) offer hard to find and expensive materials available at no cost. Its newsletter, "The Web," includes information on environmental education programs, materials, news, and events.

(801) 328-1549 or **visit the web at** www.sisna.com/usee

USEE's Teacher's Resource Centers

Southwest Outdoor Resource Center for Education is located at the Tanoquint Nature Discovery Center. To access resources call (435) 635-3604

North SORCE in the Quinney Library at the College of Natural Resources on the Utah State University campus. To access resources call (435) 797-4051 or **visit the web at** www.teacherlink.usu.edu/hum/northsorce.html

Utah State Fish Hatcheries

The State of Utah has ten production fish hatcheries throughout the state. Teachers and other educators, such as scout leaders, can receive a free packet containing a variety of information and activities. Most of the hatcheries are open to group tours upon request.

(801) 538-4717 or **visit the web at** www.nr.state.ut.us

Utah State Historical Society

The museum offers teaching kits and photograph exhibits for teachers to check out. Kits include Archaeology/Prehistory, Country School Legacy, Liquid Treasure, and Mining. The mining kit includes an inter-disciplinary approach including artifacts, maps, activities, videos, photos, and geological samples. Tours available for the permanent exhibit Utah at the Crossroads.

(801) 533-3503 or **visit the web at** www.history.state.ut.us

Wasatch Community Gardens

Hundreds of inner-city, low-income, and at-risk youth learn how to work an organic garden at two SLC community gardens. The staff leads hands-on education and work projects for youth ages 5-18. Tours and service projects may be arranged for small groups.

(801) 359-2658

Water Conservation Education Program

The Program provides water education materials for teachers K-12 statewide. Programs including Project WET address all aspects of water including surface, ground, cultural and historical uses of water, and water management. Professionally developed teaching aids are hands-on, self-contained, and user friendly.

(801) 538-7299 or **visit the web at** www.nr.state.ut.us/wtrresc

Willow Park Zoo

Located in Logan, Willow Park is a small zoo that emphasizes birds, both native and exotic. Free onsite tours and outreach programs are available for teachers and classroom groups.

(435) 750-9893

TRANSPORTATION

(See also Pollution)

Adopt-a-Highway Program

Groups may adopt a two-mile section of the highway for two years for clean-up purposes. UDOT will erect a sign on the section of the highway recognizing a group's efforts.

(801) 965-4388 or **visit the web at** www.sr.ex.state.ut.us/html/environmental.htm

Car Care For Clean Air

This DEQ program is aimed at improving air quality, addressing car maintenance, repair, and driving practices.

(801) 536-4095 or **visit the web at** www.eq.state.ut.us/eqair/car_care/index.htm

Clean Cities & Alternative Fuels Hotlines

The Hotlines provide information on federal legislation dealing with alternative transportation fuels and vehicles. Businesses and government entities can join Clean Cities in order to accelerate and expand the use of alternative fueled vehicles.

(800) 423-1363 or **visit the web at** www.gs.state.ut.us/clean.htm

Future Moves Coalition

The Coalition focuses on the impact of population growth on the Wasatch Front. Issues include: transportation systems and their consequences, development of a plan for a balanced transportation system, an integrated planning model, advocacy, and public education.

(801) 355-7085 or **visit the web at** www.xmission.com~/future/

Sierra Club (Utah Chapter)

The Sierra Club is a grassroots organization actively protecting wild places, habitats, global environmental quality, and sustainable use of resources. Current local focus is on growth issues of sprawl, transportation, open space, clean air, toxics, global warming, and wilderness. Its local chapter provides information, speakers, and outing opportunities.

(801) 467-9297 or **visit the web at** www.sierraclub.org/ or www.toowarm.org/

U.S. Department Of Transportation

visit the web at www.dot.gov

The Utah Clean Fuels Loan Program

The program promotes the transition to cleaner-burning fuels to improve Utah's air quality and reduce reliance on foreign oil. Low-interest loans are available to businesses and zero-interest loans to public fleet operators to purchase vehicles that use cleaner-burning fuels or to install fueling equipment.

(800) 662-3633 or (801) 538-8666 or **visit the web at** www.aste.usu.edu/docs/trans.htm

Utah Department Of Transportation

Responsible for all construction and maintenance of state highways, roads, and interstates in Utah.

(801) 965-4104 or **visit the web at** www.dot.state.ut.us

Utah Transit Authority

Responsible for alternative transportation planning and execution including buses, light rail, and the Rideshare programs.

BUS-INFO (287-4636) or 533-RIDE (7433) or **visit the web at** www.utabus.com

Wasatch Clean Air Coalition

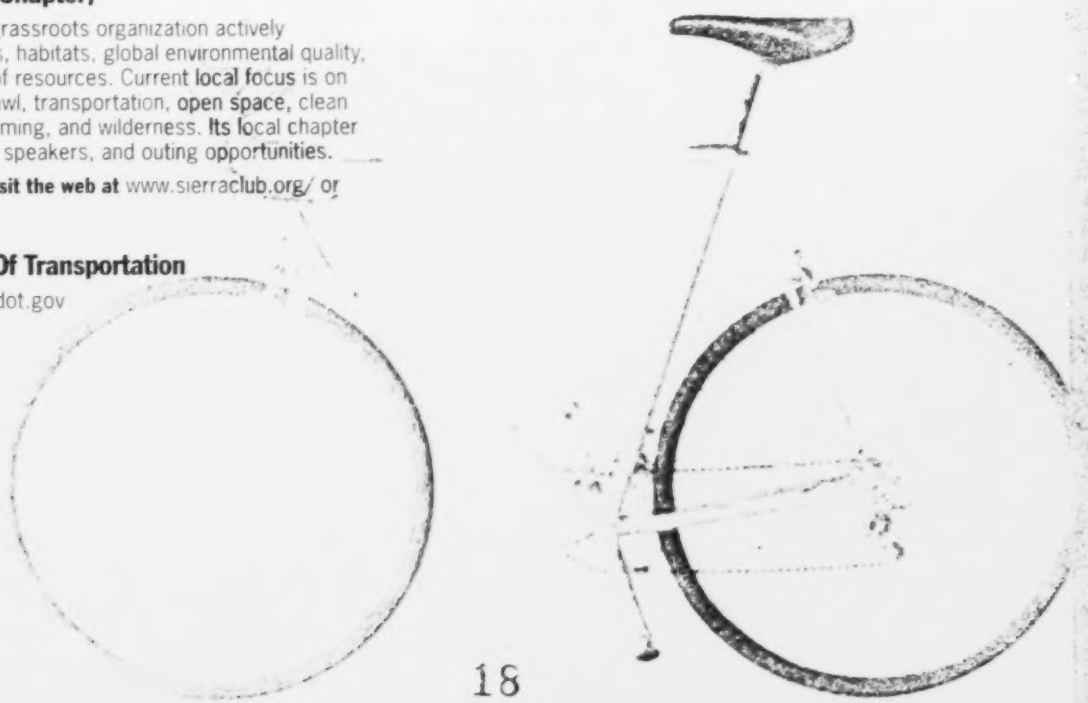
The Coalition, representing various citizen groups, focuses on air quality issues. Conducts educational lectures in the schools and holds bi-monthly meetings and publishes a newsletter.

(801) 583-8654

Wasatch Front Regional Council

WFRC is responsible for transportation planning in Salt Lake, Tooele, Ogden, Weber, Morgan and Davis counties. In addition, WFRC is involved in issues including, solid waste management, protection of open space, and air quality.

(801) 292-4469 or **visit the web at** www.wfrc.org



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WATER & WETLANDS

Adopt-a-Water Body

Volunteers act as stewards of local water bodies. Activities include trail building, stream clean-ups, tree planting, water quality sampling, and general restoration.

(801) 538-6516 or **visit the web at** www.ag.state.ut.us/npshome/adoptawaterbody.htm

American Rivers

American Rivers works to protect rivers, particularly through expansion of the National Wild & Scenic River System, by lobbying, litigation, and cooperative negotiation with government and industry.

(202) 547-6900 or **visit the web at** www.amrivers.org

American Water Works Association

AWWA is an organization of representatives from the United States, Canada, and Mexico who are dedicated to providing safe drinking water.

(303) 794-7711 or **visit the web at** www.awwa.org

Decker Lake Wetlands Preserve Foundation

The Foundation has created a model of sustainability through the construction and landscaping of the Decker Lake Wetlands. Students, corporate employees, and community members work together, beautifying the area.

(801) 977-4999

Division Of Drinking Water

This Utah DEQ division ensures safe drinking water supplies for all public drinking water systems.

(801) 536-4200 or **visit the web at** www.eq.state.ut.us/eqdw/welcome.htm

Division Of Water Quality

DEQ's Division of Water Quality protects ground and surface water from pollution.

(801) 538-6146 or **visit the web at** www.eq.state.ut.us/eqwq/dwq_home.ssi

Division Of Water Resources

This Utah DNR division promotes the orderly and timely planning, development, utilization, education, conservation, and protection of Utah's water resources to enhance the quality of life for citizens of the state.

(801) 538-7254 or **visit the web at** www.nr.state.ut.us/WTRRESC/BRDDIVBF.HTM

Friends Of Great Salt Lake

FOGSL is an organization dedicated to the protection and preservation of Great Salt Lake's ecosystem through education, research, and advocacy. A lecture series, newsletters and field trips are available.

(801) 582-1496 or **visit the web at** site www.xmission.com/~fogsl

National Oceanic And Atmospheric Administration

NOAA describes and predicts changes in the earth's environment and works to conserve and manage the nation's coastal and marine resources.

(202) 482-6090 or **visit the web at** www.noaa.gov

The Nature Conservancy Of Utah

The Utah chapter owns and manages two critical wetlands in the state: the Layton Wetlands Preserve, 1,600 acres on the eastern shore of the Great Salt Lake; and the Scott M. Matheson Wetlands Preserve, 850 acres along the Colorado River outside of Moab. Both preserves are a vital stopping ground for migratory birds along the Pacific-Rocky Mountain Flyway.

(801) 531-0999

Ogden Nature Center

Observe the many ponds and wetland areas at different times of the year to see which birds are making a quick stop or settling in to raise their young (avocets, terns, mallards) at the 127-acre wildlife sanctuary.

(801) 621-7595

Red Butte Garden & Arboretum

Visit the Garden to see the benefits of a wetland rehabilitation from a construction dump-site to a tumbling stream, and a wildlife-attracting pond. Stream stabilization, restoration, and reintroduction of native species continues as an ongoing program. Learn water conserving gardening techniques and learn to select drought-tolerant plants for your home landscape.

(801) 581-5322 or **visit the web at** www.utah.edu./redbutte

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Rural Water Association Of Utah

This unique program comprised of training and technical assistance for the benefit of water and wastewater systems in Utah that serve less than 10,000 in population.

(801) 785-0254 or **visit the web at** www.wquo.net/~rwau

Scott M. Matheson Wetlands Preserve

The Preserve was created to ensure lasting protection of a spectacular desert wetland systems and its biological diversity.

(801) 259-4629 or **visit the web at** www.netoasis.com/moab/matheson

The Safe Drinking Water Hotline

The Hotline responds to consumers' concerns about the quality of their drinking water and supplies information on federal drinking water regulations.

(202) 426-4791 or **visit the web at** www.epa.gov/OW/pubs/drinklink.html

U.S. Water News Online

See the electronic version of the news publication. Coverage includes water supply, quality, policy, legislation, litigation and rights, conservation, climate, and international water news.

(316) 835-2222 or **visit the web at** www.uswaternews.com

Utah Association Of Conservation Districts

An association of local, state, and federal leaders and private land owners who promote long-term conservation and development of Utah's water resources.

(435) 753-6029

Utah Water Conservation Forum

The Forum's mission is to raise awareness and educate the public about managing, preserving, and learning how to manage water wisely.

(801) 782-3947

Utah Wetlands Foundation

The Foundation is dedicated to the perpetuation and enhancement of Utah's wetlands for the benefit of wildlife and people.

(801) 364-2045

Wasatch Front Forum

The Forum holds a monthly panel discussion on the second Tuesday of each month, with Q & A and social gathering, October - March. Sponsored by a dozen different conservation and civic groups, the Forum provides opportunities for Utahns to learn more about the natural history of the Wasatch Front and legal, political, and social issues facing public land managers and local governments.

(801) 272-2598

Water Environment Association Of Utah

Dedicated to the preservation and enhancement of the water environment, the Association recognizes outstanding wastewater treatment facilities and staff, and organizes training and public education opportunities.

(801) 262-2904 or **visit the web at** www.et.byu.edu/~weau

Watershed Protection Program

This Utah DEQ program aims at improving the protection of Utah's surface and ground water resources. The program relies heavily on active, local involvement with participating by local governments, health departments, and citizens.

(801) 538-6146 or **visit the web at** www.eq.state.ut.us/eqwq/shed.htm

Wetlands Information Hotline

The Hotline is a primary source of information on wetlands, providing data on the function of wetlands as well as options for their protection.

(800) 832-7828 or **visit the web at** www.epa.gov/OGWDW/wetline.html

Wetlands Workshop

The Utah Division of Wildlife Resources offers workshops to help the citizens of Utah make informed decisions about wetlands. Issues include wetland values and regulations.

(801) 538-4864 or **visit the web at** www.nr.state.ut.us/dwr/wetprogr.htm

WILDLIFE

Ducks Unlimited

Since 1937, Ducks Unlimited has focused its concerns for wetland conservation as generated improvements and restoration to 11,000 projects and protecting over six million acres.

(801) 364-9672

Fish Springs National Wildlife Refuge

The Refuge is a spring-fed oasis in Utah's West Desert. Over 266 species of migratory birds have been seen on the Refuge. The area's rich cultural history includes prehistoric native occupation, the Pony Express, and the Lincoln Highway.

(435) 831-5353

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Hardware Ranch

The elk winter range with wildlife viewing site and visitor center are open mid-December through March depending on snow. Educational programs available by reservation.

(435) 753-6206 or **visit the web at** www.nr.state.ut.us/dwr/homeypg.htm

HawkWatch International

Hawkwatch features raptor migration studies and promotes raptors as environmental barometers. The group offers identification seminars, field trips, in-school programs with hawks, and slide shows. A newsletter "Raptor Watch" is available. "Adopt-a-Hawk" funds raptor research.

(800) 726-4295 or (801) 524-8511 or **visit the web at** www.info-xpress.com/hawkwatch/

Hogle Zoo

Utah's Hogle Zoo displays over 1200 exotic mammals, birds and reptiles in naturalistic environments to help promote an understanding of wildlife and habitat conservation. The Zoo offers conservation programs for breeding endangered wildlife and community outreach presentations.

(801) 582-1631 or **visit the web at** www.xmission.com/~hoglezoo/

National Audubon Society

One of the oldest, largest nature appreciation and conservation organizations in the country, the Society is known for its educational programs related to endangered birds, and flight plans of wild birds.

(303) 499-0219 or **visit the web at** www.audubon.org

National Wildlife Federation

With several million member the federation is certainly the largest, and one of the most influential, conservation organizations in the U.S. Programs include Cool It! and Corporate Conservation Councils which provide teacher resources for grades K - 6. (800) 477-5560 or (202) 797-6800 or **visit the web at** www.nwf.org

The Nature Conservancy Of Utah

Utah's chapter is committed to preserving plants, animals, and ecosystems by protecting the lands and waters necessary for their survival. The Conservancy has completed over 70 projects protecting over 750,000 acres of habitat for wildlife in Utah.

(801) 531-0999

National Wild Turkey Federation

The NWTF works to introduce wild turkeys to areas throughout the state.

(801) 798-9276 or **visit the web at** www.hooks.com/nwtf

Ogden Nature Center

The only rehabilitation center for birds in Northern Utah, the Nature Center cares for over 300 injured and orphaned birds each year. Resident wildlife are available for visitors to learn about a variety of visiting wildlife as they roam free on the 127-acre sanctuary.

(801) 621-7595

Pheasants Forever

This national non-profit conservation organization is dedicated to the protection and enhancement of pheasants and other upland wildlife through habitat improvement, public awareness, and education.

(612) 773-2000

The Predator Education Fund

The PEF seeks to preserve and protect mammal predators native to the Intermountain West through education and direct action. The PEF offers information packets to teachers and others on the importance of the predator/prey relationship.

(801) 575-7101 or **email at** utah.predator@worldnet.att.net

Red Butte Garden & Arboretum

For year-round wildlife watching, the natural areas of the Garden offer close at hand observation along Red Butte Creek and pond. See 51 mammal species, 106 bird species, 5 dragonfly species and dozens of butterfly species. The Garden also works in cooperation with the U.S. Forest Service to manage the Red Butte Canyon Research Natural Area, the 5,000 acre watershed.

(801) 581-5322 or **visit the web at** www.utah.edu/redbutte

The Rocky Mountain Elk Foundation

The RMEF is dedicated to preserving the future of elk, other wildlife, and their habitat. Since 1987, the Foundation has raised $4.8 million in total matching funds for more than 90 projects in Utah.

(800) CALL-ELK or **visit the web at** www.rmef.org

Sportsmen For Fish & Wildlife

The members of SFW support the mission to protect wildlife habitat, promote quality wildlife management programs, and protect Utah's family heritage of hunting and fishing. SFW has a particular focus on Utah legislation that impacts wildlife.

(801) 466-0920

Tracy Aviary

Located on seven wooded acres, the Aviary displays over 1,000 native, exotic, and endangered birds from all parts of the world. Birds of a Feather is a free-flying bird show with 50 trained birds offered May through September. Enjoy interactive experiences with parrots in the Lory Walk, field trips, school, scouting, and public classes.

(801) 322-2473

Trout Unlimited

Trout Unlimited's mission is to conserve, protect, and promote North American cold water fisheries and their watersheds. In Utah, emphasis is on Trout, White Fish, and Kokanee Salmon.

(801) 524-6491 or **visit the web at** at www.tu.org

Utah Chapter Of Foundation For North American Wildsheep

UFNAWS raises money to protect habitat for Desert, Rocky Mountain, and California Bighorn Sheep and funds management and re-establishment of these species. The group educates the public about the value of wild sheep, and the hunters' role in their conservation.

(801) 466-8830 or **visit the web at** www.igi.com/os/non/fnaws

Utah Division Of Wildlife Resources

The Division assures the future of protected wildlife for its intrinsic, scientific, educational and recreational values through protection, propagation, management, conservation, and distribution throughout the state. DWR sponsors Watchable Wildlife Days, including: Bald Eagle Day, Snow Goose Day, Kokanee Salmon Day, Raptor Watch Day, and Migratory Bird Day. Ten fish hatcheries in Utah play a valuable role in preserving native trout population and create fishing opportunities. Most are open to the public and conduct group tours upon request.

(801) 538-4700 or **visit the web at** www.nr.state.ut.us/dwr/homepg1.htm

Utah Museum Of Natural History

Located on the U of U campus, the museum offers a variety of programs and learning opportunities on-site and in the natural world including youth Classes for kids 4 to 12 years old and an adult lecture series. "Utah Natural History" is a periodical produced twice-yearly with a calendar of events.

(801) 581-6927

Utah Wildlife Federation

The Federation works statewide with affiliates and members to develop, promote and support comprehensive programs for the restoration, wise use, management and conservation of wildlife and natural resources essential to wildlife.

(801) 487-1946

U.S. Fish And Wildlife Service

The Service offers curriculum materials for programs such as Aquatic WILD and Schoolyard Habitat.

(801) 831-5353 or **visit the web at** www.fws.gov

Wasatch Front Forum

The Forum sponsors a monthly panel discussion, held on the second Tuesday of each month with Q & A and a social gathering, October - March. Sponsored by a dozen different conservation and civic groups, the Forum provides opportunities for Utahns to learn more about the natural history of the Wasatch Front and legal, political, and social issues facing public land managers and local governments.

(801) 272-2598

Wildlife H.E.L.P. (4-H)

The National Wildlife Habitat Evaluation Project involves secondary students in learning about and judging the health of various wildlife habitats. It contains detailed information on major wildlife management concepts as well as habitat zones in Utah.

(435) 797-3971

YARD & GARDEN

(See also Agriculture)

Butterfly Zone

The ZONE provides information on attracting butterflies to landscapes including basic steps to starting a butterfly garden.

visit the web at www.butterflies.com

City Farmer

City Farmer provides information regarding sustainable agriculture and organic gardening.

visit the web at www.cityfarmer.org

Cool Communities

Cool Communities promotes strategic tree planting, landscaping, and the use of light-colored building and street surfacing to reduce the urban heat island effect, to improve air quality, and enhance the environment.

(801) 538-8610 or **visit the web at** www.eren.doe.gov/cities_counties/coolcit.html

Environmental Resources, Inc.

The company publishes Sustainable Landscapes and Gardens: The Resource Guide by Wesley A. Groesbeck and Jan Striefel. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products, and materials divided into 11 categories.

(801) 485-0280

Environmental Working Group

EWG is a leading content-provider for public interest groups and concerned citizens who are campaigning to protect the environment. 18 researchers write hundreds of reports each year and offer their articles, database, and technical assistance to concerned citizen groups.

visit the web at www.ewg.org.

National Garden Association

NGA publishes a national gardening magazine. Developed an educational curricula to teach science using indoor plant cycles. Provides grant support for youth gardening projects.

(802) 863-1308 or **visit the web at** www2.garden.org/nga

National Wildflower Research Center

An excellent source of information for obtaining lists of recommended native plant species for each state as well as sources for propagated native plants in specific areas of the U.S.

(512) 292-4100

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Natural Resources Conservation Service

Learn how to make your yard a friendlier place for birds, butterflies, and other beneficial critters by using conservation techniques to enhance wildlife habitat and protect soil and water resources.

(801) 524-5050 or **visit the web at** www.ut.nrcs.usda.gov.

Ogden Nature Center

Visit the Nature Center gardens and wildlife sanctuary or attend classes on gardening and planting to learn how and what to grow in your own yard and garden at different times of the year.

(801) 621-7595

Red Butte Garden & Arboretum

A Utah source for information and inspiration on gardening, landscape design, recommended plants and horticultural techniques for the Intermountain region. Red Butte offers relevant classes, workshops, publications, and volunteer opportunities year-round.

(801) 581-5322 or **visit the web at** www.utah.edu/redbutte

Resource Guide To Sustainable Landscapes

The guide offers suggestions to design professionals, facility management professionals, government officials, educators, builders, contractors, and citizens can about finding sustainable products and materials that are energy-efficient, ecologically safe, and support healthy landscapes.

(801) 485-0280

TreeUtah

TreeUtah involves students and citizens in community forest and ecological restoration projects and teaches the importance of trees, urban forests, natural ecosystems, and biological diversity.

(801) 364-2122 or **visit the web at** www.treelink.org

Utah Botanical Gardens

The gardens located in Farmington provide a unique opportunity to see plants change throughout the season.

(801) 451-3204

Wasatch Community Gardens

Gardening programs serve Salt Lake City's low-income neighborhoods. Families can grow food for themselves or others in the Community Gardening program. Young people can participate in work and education projects in the inner-city Youth Gardening program.

(801) 359-2658

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Recommended Reading

Note: many of the organizations and agencies listed in the resource section of the guide publish magazines or brochures on environmental or nature issues. In addition, there are many regional guides written on wildlife, plants, geology and the natural history of Utah.

Agriculture

Healthy Harvest: A Global Directory of Sustainable Agriculture and Horticulture Organizations.(ag Access)

Sustainable Landscapes & Gardens: The Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

Useful Internet Addresses for Sustainable Builders, Designers, and Planners. Wesley Groesbeck. Environmental Resources, Inc. 1997. This locally written guide provides the user with a comprehensive listing of 378 useful Internet addresses listed in 27 categories, from Agriculture to Sustainable Communities to Wildlife. Call (801) 485-0280 for a paperback edition.

Consumer

The Consumer's Guide to Planet Earth: A Media Resource Guide to Environmental and Health Oriented Products and Services. Schultz Communications, 1994. The book features unique ways to find green products and services.

Diet for A New America. John Robbins, Stillpoint Publishing. The book discusses how our choices of what we eat affect our health, happiness, and even the future of life on Earth.

The Green Consumer. Joel Makower, Penguin Books, 1993. Currently the best book available on all aspects of green consuming.

How Much Is Enough?: The Consumer Society and the Future of the Earth. Alan Thein Durning. The book takes a thought-provoking look at consumerism; its myths, the role it plays in society and the impacts it has including environmental effects.

Shopping for a Better World. Sierra Club Books. 1994. For years, this best-selling book has allowed consumers to evaluate corporate responsibility and encourage people to "vote" with their purchases at the checkout counter.

Sustainable Landscapes & Gardens: Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products, and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

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Your Money or Your Life. Joe Dominguez, Penguin, 1992. Find out how to transform your relationship with money and achieving financial independence while taking care of the planet.

Education

Discovering America: John Muir in His Time and Ours. Frederick Turner, Sierra Club Books. Explore the life of John Muir, a remarkable inventor, botanist, conservationist and founder of the Sierra Club.

Education for the Earth: A Guide to Top Environmental Studies Programs, 1993. Environmental science and natural resource management programs dominate, but environmental engineering and design, environmental health, and environmental programs are also included.

Environmental Education Teacher Resource Handbook. This is a practical guide for teachers K-12. A one-step reference book for classroom environmental educators.

E/The Environmental Magazine . Published bimonthly by Earth Action Network, Inc., the magazine is a clearinghouse of information and news on environmental issues. Also on-line at www.emagazine.com

Forest

This Land is Your Land: A Guide to North America's Endangered Ecosystems. Jon Naar ad Alex J. Naar, Harper Collins Publishers, 1993. This book is a good starting point for general information on ecology and conservation efforts.

Sustainable Landscapes & Gardens: The Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

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Gardening

Building A Healthy Lawn: A Safe and Natural Approach. Stuart Franklin, 1993. The author operates from the premise that chemical fertilizers and pesticides are unnecessary.

Common-Sense Pest Control: Least-Toxic Solutions for Your Home, Garden, Pets and Community. William Okowski, 1991.

Saving Water in the Home and Garden. Jonathan Erickson. TAB Books, 1993. The book offers practical advice without preaching to the reader.

Sustainable Landscapes & Gardens: The Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

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Home

Consumer Guide to Home Energy Savings. Edited by Alex Wilson and John Morrill., 1995. The book is a must for anyone interested in protecting the environment and saving money by reducing the amount of energy used at home.

Eco-Renovation: The Ecological Home Improvement Guide. A perfect book for do-it-yourself homeowners who wish to make their existing homes as ecologically friendly as possible.

The Efficient House Sourcebook, 1992. An outstanding guide that describes books, periodicals, catalogs, and organizations related to energy-and resource efficient housing.

Healthy Homes in a Toxic World: Preventing, Identifying and Eliminating Hidden Health Hazards in Your Home. Maury M. Breecher, John Wiley & Sons, 1992. An excellent reference book that enables consumers to educate themselves on the toxic hazards lurking within their houses.

Healthy House Building: A Design and Construction Guide. John Bower, 1993. An excellent resource for the designer, builder, or dedicated homeowner who wants to build a healthy home.

Home Ecology: Simple and Practical Ways to Green Your Home. Karen Christiansen. Fulcrum Publishing, 1990. Accept the invitation to make the transition toward a sustainable style with down-to-earth practical advice.

The Natural House Book: *Creating a Healthy, Harmonious, and Ecologically-Sound Home Environment.* David Pearson. This comprehensive guide shows how to turn any house or apartment into a healthy living environment.

The Real Goods Solar Living Sourcebook: The Complete Guide to Renewable Energy Technologies and Sustainable Living. John Schaeffer, 1994. This is a mail-order catalog of products for energy-generating and resource-efficient homes.

Sustainable Building Sourcebook, 1992. The book contains an enormous amount of practical information for building professionals.

Sustainable Landscapes & Gardens: The Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

Useful Internet Addresses for Sustainable Builders, Designers, and Planners. Wesley Groesbeck. Environmental Resources, Inc. 1997. This locally written guide provides the user with a comprehensive listing of 378 useful Internet addresses listed in 27 categories from Agriculture to Sustainable Communities to Wildlife. Call (801) 485-0280 for a paperback edition.

Recycling

Recycled Products Guide. Recycling Data Management. The most comprehensive directory available of products made from recycled materials.

Sustainable Landscapes & Gardens: The Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

Taking Out the Trash: A No-Nonsense Guide to Recycling. Jennifer Carless. Island Press, 1992. Read one of the most comprehensive reference texts on recycling.

Useful Internet Addresses for Sustainable Builders, Designers, and Planners. Wesley Groesbeck. Environmental Resources, Inc. 1997. This locally written guide provides the user with a comprehensive listing of 378 useful Internet addresses listed in 27 categories from Agriculture to Sustainable Communities to Wildlife. Call (801) 485-0280 for a paperback edition.

Sustainable Communities

A World Wide Web Sustainable Topics Bookstore is available from Global Environmental Options at www.geonetwork.org/bookstore. Featured books and reviews are included. Book topics include architecture, conservation, architecture ecology, ecology, economics, ecosystems, human ecology, landscape, and sustainable development.

Sustainable Cities: Concepts and Strategies for Eco-City Development. Edited by Bob Walter, Lois Arkin, and Richard Crenshaw. Eco-Home Media, 1992. This all-in-one handbook is an excellent resource for those interested in sustainable cities.

Sustainable Communities: A New Design Synthesis for Cities, Suburbs and Towns. Edited by Sim Van der Ryn and Peter Calthorpe. Sierra Club Books, 1986. This collection of essays explores the ways in which some American communities are making the transition to sustainability.

Sustainable Landscapes & Gardens: The Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

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Transportation

The Green Commuter. Joel Makower. National Press Books 1992. The book educates consumers so that they can make environmentally responsible transportation choices.

Useful Internet Addresses for Sustainable Builders, Designers, and Planners. Wesley Groesbeck. Environmental Resources, Inc. 1997. This locally written guide provides the user with a comprehensive listing of 378 useful Internet addresses listed in 27 categories from Agriculture to Sustainable Communities to Wildlife. Call (801) 485-0280 for a paperback edition.

Pollution

Sustainable Landscapes & Gardens: The Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

Toxics A to Z: A Guide to Everyday Pollution. Edited by John Harte, Cheryl Holdren. University of California Press, 1991. The guide is an excellent primer on toxic substances in a popular presentation and readable style, technical enough to be a comprehensive introductory guide.

Useful Internet Addresses for Sustainable Builders, Designers, and Planners. Wesley Groesbeck. Environmental Resources, Inc. 1997. This locally written guide provides the user with a comprehensive listing of 378 useful Internet addresses listed in 27 categories, from Agriculture to Sustainable Communities to Wildlife. Call (801) 485-0280 for a paperback edition.

Water

Cadillac Desert: The American West and Its Disappearing Water. Marc Reisner, Penguin Books.

An informative and entertaining history of efforts, over the past fifty years, to dam Western rivers and divert their flows to crops and cities, the book is the basis for the series broadcast on KUED.

Entering the Watershed: A New Approach to Save America's River Ecosystems. Bob Doppel, Mary Scurlock, Chris Fissel, James Karr. Island press, 1993. Read the landmark policy report on the restoration of surface water ecosystems.

Is Your Water Safe to Drink? Raymond Gabler. 1988. The book allows consumers to understand drinking water quality issues and the fight to make their water safer.

Seductive Beauty of Great Salt Lake. Essays by Ella Sorensen, photographs by John P. George. Gibbs Smith Publisher, 1997. Breathtaking images and moving prose reveal the soul of the Great Salt Lake and the flora and fauna that thrive along the shores.

Sustainable Landscapes & Gardens: The Resource Guide. Wesley A. Groesbeck & Jan Striefel. Environmental Resources, Inc. 1996. The coverage of landscaping and gardening resources is extensive and comprehensive in this locally written resource guide. You'll find 2,106 sustainable information sources, products, and materials divided into 11 categories. Call (801) 485-0280 for a paperback edition.

Useful Internet Addresses for Sustainable Builders, Designers, and Planners. Wesley Groesbeck. Environmental Resources, Inc. 1997. This locally written guide provides the user with a comprehensive listing of 378 useful Internet addresses listed in 27 categories, from Agriculture to Sustainable Communities to Wildlife. Call (801) 485-0280 for a paperback edition.

The Wasted Ocean. David K. Bullock. Lyons & Burford, 1989. The author, an industrial chemist, reviews the causes of increased toxins and chemicals in coastal environments.

The Wild and Scenic Rivers of America. Tim Palmer. Island Press, 1993. The book is a comprehensive guide to the National Wild and Scenic Rivers System.

RECYCLING PAGES

Global Recycling Network

This web site offers a wide variety of general reference material and a virtual marketplace intended to assist businesses around the world find possible trading partners for the sale of recyclable goods.

(516) 286-5580 or **visit the web at** http://grn.com/grn/

DEQ Environmental Hotline (800) 458-0145

Counties

Grand	(435) 259-8640
Washington	(435) 673-2813
Cache (City of Logan)	(435) 750-9953
Salt Lake	(801) 974-6902
Millard	(435) 864-1400
Garfield	(435) 676-1119
Rich	(435) 946-3428
Utah	(801) 379-6701
Davis	(801) 451-3296
Summit	(435) 649-9698
Wasatch	(435) 654-2700
Weber	(801) 399-8169
Tooele	(435) 843-2340

Curbside Household Recycling Programs

Draper	576-6512
Holladay	963-1410
Murray	963-1410
Riverton	280-8200
SLC	972-CURB (2872)
Sandy	568-2999
South Jordan	280-8200
West Jordan	569-5760
West Valley	963-1410

Drop-off Centers

For the recycling drop-off center closest to you, contact the Recycling Hotline at (801) 974-6902. Remember to keep recycling centers CLEAN and don't ever leave boxes, bags, or recyclables on the ground. Put appropriate materials in the appropriate bin. When improper materials are placed in the wrong bin it contaminates the materials making the collection un-recyclable.

Recycle Your Used Oil

Did you know it is against the law and a $10,000 fine is charged if a person dumps used oil into the trash, on the ground, or in a storm drain-sewer? Recycle used oil at any of the following: Auto Zone, Checker Auto, Jiffy Lube, Napa Auto, Pep Boys, Salt Lake Valley Solid Waste Facility, and Q-Lube. (800) 458-0145 or (801) 538-6170

Recycle Your Household Hazardous Waste

Chemicals, fertilizers, flashlight batteries, fluorescent-light tubes, fuels, paints, paint thinners, pesticides, and rechargeable nickel cambium batteries can be dropped off for FREE at the Household Hazardous Waste Facility at 6030 West and 1300 South in SLC Monday - Saturday, 7:00 a.m. to 5:00 p.m. (801 944-6697

Recycle Your Tires

The majority of the tires you recycle are chopped and chipped to be used as fuel for industrial furnaces and electrical power plant furnaces. Other uses of recycled tires include; shoe soles, gym floors, rubber mats, garden hoses, soil conditioners, rubber asphalt and road construction.

YOU (or your business) can recycle tires at one of the following three locations:

TIRE DISPOSAL & RECYCLING
at 985 South 800 West — 977-9010

UTAH TIRE RECYCLERS
at 2163 South 2700 West — 972-8800

IDAHO TIRE RECOVERY
at 4200 South Main — 281-0083

$$ CASH BACK FOR RECYCLING CENTERS $$

ITEMS RECYCLED	COMPANY
Aluminum cans, corrugated cardboard, office paper, white ledger paper	**Weyerhauser, SLC, 973-2082**
Newspaper, paperback books, paper bags, paper board, phone books	**Comfort Systems, Midvale, 561-7101**
Catalogues, junk mail, magazines, newspaper, paper bags, phone books	**Redi-Therm Insulation West Valley, 972-6551**
Aluminum, brass, corrugated cardboard, computer paper, litho plates, newspapers, sorted ledger paper, tin	**BFI Recyclery SLC, 972-0220**
Aluminum cans, corrugated card board, computer paper, newspapers, paper bags, plastics #1,2 & 6, white ledger paper	**RCA, SLC, 973-0333**

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Antifreeze:	Preferred Reduction Services 973-2220
Car Batteries:	Standard Batteries 973-4614
	Intermountain Battery 487-0874
Eye Glasses:	Ask your eye car provider for a drop box. Lions Club and other non-profit groups ship glasses overseas for people in Third World Countries.
Good Cardboard Boxes:	Salt Lake Box 977-8621
	Supreme Box 567-6900
Packing Peanuts:	Mail Boxes & Help-U-Mail - check yellow pages for closest location
Packing Styrofoam:	Marko Foam 972-1354

Don't forget that many items such as appliances, unwanted clothes, and other household items can be given to local charities or thrift stores to be used by others.

Paper Vs. Plastic?

The best choice, of course, for carrying your groceries and other purchases is reusable cloth bags, fiber baskets, or reusable mesh bags. These bags can easily be used over and over without wear and only use 1/10 of the energy it takes to make 100 plastic or paper bags.

Paper Bags

- Made from renewable resources
- Bio-degradable
- Don't create long lasting litter
- Breakdown can be composted
- Can be used for brown paper wrapping
- Are rigid making them easier to pack and transport groceries in your car
- Contain 25% recycled materials
- Can be recycled into other products
- Can be used to hold other items

Recycling tip: Most curbside recycling programs accept paper bags along with your newspapers. Local newspaper recycling bins at schools or stores will also accept paper bags.

Plastic Bags

- Less expensive than paper bags
- Manufacturing consumes 20 to 40 percent less energy
- Takes up 74 to 80 percent less space than paper bags
- 1,000 plastic bags weigh 16 lbs. (4 inches high)
- 1,000 paper bags weigh 140 lbs. (46 inches high)
- Can be recycled into other products
- Waterproof and handy in a rainstorm
- Can be used over many times
- Can kill marine animals and seabirds as well as pollute waterways and highways

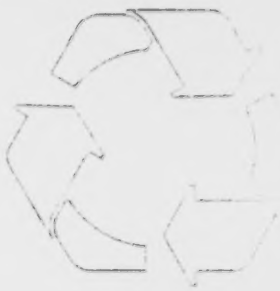
Recycling tip: The following stores have recycling bins for plastic bags: Albertson's, Dan's, Fred Meyer, Harmon's, Macey's, Shopko, Smith's, and Wal-Mart. The bags are collected and recycled into new shopping bags and plastic lumber.

Again, consider using cloth bags, fiber baskets, or reusable mesh bags. It just takes a little forethought to remember to carry your bag with you when shopping!

Watch for these Symbols

This symbol means Recycled. It indicates:

1. A product is made entirely or predominantly from recycled materials.
2. A magazine, newspaper, or other publication is printed on recycled paper.



This symbol means Recyclable. It indicates:

1. Products or packages made from other materials which after use can be turned in for recycling.

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Understanding Plastic Recycling

Currently there are only three kinds of plastic containers recycled in Utah #1, #2 and #6. You will find these numbers molded into the plastic container. To prepare items for recycling; remove all paper that is not attached and rinse well. (Clean is good for recycling!)

PLASTIC	ORIGINAL PRODUCT	RECYCLED PRODUCT
1 PETE Polyethylene (Recycled in Utah)	• Soft drink bottles.	• Soft drink bottles, household cleaner bottles, carpet, paint brushes, surfboards, clothing, and insulation for clothing.
2 HDPE High Density Polyethylene (Recycled in Utah)	• Clear milk, juice, and distilled water jugs.	• Cups, detergent & bleach bottles, trash bags, trash cans, recycling bins, traffic barriers & cones, plastic lumber, pails & fly swatters.
3 V Vinyl	• Clear food packaging, shampoo, cosmetic, cooking oil bottles, & plumbing pipes.	• Floor mats, pipes, and mud flaps.
4 LDPE Low Density Polyethylene	• A variety of food packaging bags and wraps, dry cleaning bags and some dairy container lids.	• Garbage can liners, grocery, litter and convention bags, flying disks, plastic lumber, and lawn furniture.
5 PP Polypropylene	• Bread, cheese & snack food wraps, cereal box liners, yogurt containers and medicine bottles.	• Brooms, ice scrapers, snow brushes, paint buckets, video cassette storage cases, fast food trays, and lawn mower wheels.
6 PS Polystyrene (Recycled in Utah)	• Video cassette cases, compact disc jewel cases, fast food sandwich containers, hot drink cups and disposable cutlery (forks, spoons, knives.)	• Video cassettes, flower pots, trash cans, food service trays, building insulation, letter openers, clipboards, and rulers.
7 OTHER Other Plastic	• Includes all other plastics not mentioned above such as multi-layer packaging, polycarbonate & ABS which are often used to make durable goods; such as cookware, lamp housings, name plates, automotive trim, bathtubs and computer housings.	• Although the recycling of these plastics is currently limited, some products made from polycarbonate & ABS are being recycled into pens, ice scrapers, snow brushes, street signs, and concrete supports.

Understanding Plastic Recycling

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The Power Of Personal Choice

The power of personal choice is very real when it comes to protecting the environment. Through a few of the following examples, we wanted to show how a little conservation and care can go a long way. Make thoughtful choices and then involve your family, neighbors, and community. Together our individual actions joined by others can make a marked difference.

Choices

By Making This Personal Choice...	One Person Can...	A Community Can (Based On 20,000 People)	The Nation Can... (Based On 270 Million People)	The Earth & Us Can... (Based On 5.5 Billion People)
Driving your car one less day per week (substitute bus, bike carpool, walk, telecommute).	• Reduce mileage on personal car by 21 miles/ week (average) 1,092 miles/year. • Reduce 24 lbs/week carbon dioxide emission. • Save $110 year in operation a maintenance costs (based on .10 a mile). • Improve health if walking or biking to work!	• Reduce rush hour congestion by 20%. • Reduce air pollution by 515,000 lbs/year (hydrocarbons, nitrous oxide, carbon monoxide).	• Reduce carbon dioxide emissions by 1.6 million tons/year. • Reduce air pollution load by 13.7 million tons/year.	• Reduce foreign oil dependence by 128 million barrels/year (at 19 mpg avg.). • If this example is set by the US and followed by other industrialized countries, then carbon dioxide emissions could be reduced by app. 2.8 million tons/year.
Reducing household electrical consumption compact flourescents, hang one load of laundry to dry once a week, turn thermostat down 4 degrees in winter or up in summer.	• Save 1,940 kWh/year. • Reduce carbon dioxide emissions by 2,561 lb/ year. • Save $163 year in electrical costs.	• Save 38,000 mWh/year. • Reduce carbon dioxide emissions by 25,600 tons per year.	• Make it possible to light 48,600 house/ year using compact flourescent bulbs and existing power supplies. • Reduce carbon dioxide emissions by 147 million tons/year. • Reduce pressure on fish habitats by reducing need for hydroelectric power.	
Reducing water consumption (fix leaks, install low flow shower heads, take 5 minute showers, install low flow toilets).	• Save 60 gallons per day per household (compare to one person's water use of 80 gallon per day average!) • Save 20% off your water and sewer bill.	• Reduce water use by 110 million gallons / year. • Reduce water supply and waste-water treatment facilities operating costs for the community.	• Save potable water each year equivalent to 10% of the monthly flow down the Columbia River. • Save $65 billion per year in water costs.	• Water conservation will be one of the most important ways to protect water systems from weather changes caused by global warming. • Reduce stress on water sensitive ecosystems.
Using reusable or recyclable products- cloth shopping bags, refillable glass bottles, buying bulk foods using reusable plastic containers.	• Reduce trash by 21 lbs/ year (using cloth shopping bags). • Reduce energy consumption by 1/3 gallons oil per year using refillable glass bottles for milk. • Reduce plastic in solid waste stream by 4.07 lb / year using refillable glass bottles for milk. • Reduce packaging waste by buying bulk foods and materials in reusable containers.	• Reduce solid waste in landfills by 210 tons per year. • Reduce energy consumption by 1,600 gallons of oil per year. • Reduce solid waste (plastic) approximately 81,500 lbs. per year. • Reduce paper, foil and plastic waste going to landfills.	• Reduce landfill acreage by 36 acres/ year. • Reduce energy consumption by 21.6 million gallons oil per year. • Reduce solid waste (plastic) approximately 550,000 tons per year. • Protect ground water quality if cattle feedlots (corraled and grain-fed) are reduced.	
Eating 1/4 less beef per week.	• Save 600 gallons of water per week required for cattle raising, feeding, processing and transportation (equals daily water use of 7 people). • Make an additional 3.5 meals worth of grain available for human consumption (saves 1.25 lbs. grain).	• Prevent 3,640 tons/year of topsoil erosion in cattle ranching areas.	• Reduce greenhouse gas emissions 4.83 million tons/year (1.7) (methane and carbon dioxide).	• Reduce foreign oil imports by over 10.3 million barrels/year (beef processing and transportation energy). • Grain not fed to cattle could feed 46.8 million people per year. 6% of the world's 800 million hungry people.
Replacing a vehicle with one that is 10 mpg more efficient.	• Save $283 yr./ in gasoline costs. • Reduce carbon dioxide emissions by 2.49 tons/ year. • Reduce air pollution emissions by 267 lb/year.	• Reduce gasoline consumption by 1.72 million gallons/year. • Reduce carbon dioxide emissions by 18,900 tons/ year. • Reduce pollution emissions by 1,014 tons/year.		• Reduce foreign oil imports by 554 million barrels / year. • Reduce annual US carbon dioxide contribution to global warming by 19%.

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Experiments That Will Show You How To Use Less Stuff!

You or your kids might want to try these activities to see how you can help save the Earth by using less.

Too Much Trash

Try this experiment. Instead of throwing trash into various garbage bins, just for one day put the trash into one bag. You'll be surprised at how heavy the bag is by the end of the day. Weigh the bag and figure out how many pounds of garbage you or your family throw away per year if you continue to consume at the same rate. Then, after examining the contents, ask yourself and/or the family the following:

- What can I (we) do without if I (we) bought items with less packaging?
- How much food waste could be put into a compost pile or worm bin?
- Did I (we) need to buy some of the stuff in the first place?
- If we bought in bulk would it save on packaging?
- How much is recyclable?

Once you've analyzed your own trash you'll be able to make some earth-altering decisions. It's all part of reduce, reuse, recycle and rethinking the way you live.

Stop The Smog

Do you know how much carbon dioxide is given off by your family car(s)? Try this experiment. Record the miles your car travels in a day or week. This number is about equal to the pounds of carbon dioxide your car releases into the environment. Have everyone in the family do the same. At a family meeting perhaps you could find ways to reduce emissions by carpooling, walking, or taking public transportation. Consider riding a bike on short errands close to home or telecommute to work one day a week. Walking and bike-riding are good for your health and the planet!

Slow The Flow

This is a great experiment to see if you're a wasteful water user. Before you get into the shower, plug the drain. (Be careful not to use too much soap because it can make the tub slippery.) After your shower, mark the water line using a crayon. Next time, take a shower half as long. Compare the water level to the crayon mark and notice how much water you saved.

Tip: Save water and $$ by investing in a low-flow shower head - they can reduce water use by as much as 50%.

The Big Flush

Each time a toilet is flushed, up to 5 gallons of water is used. For just one person, flushing pollutes as much as 7,500 gallons of fresh water each year to move just 165 gallons of body waste. So with all that flushing, why not soak the label off a bottle and fill with water. Place the capped bottle in the water tank. If you need to weigh the bottle down a bit add some rocks until it no longer floats. You may want to try adding more bottles to displace additional water. Experiment with bottle sizes, as different toilets require different amounts of water to flush properly.

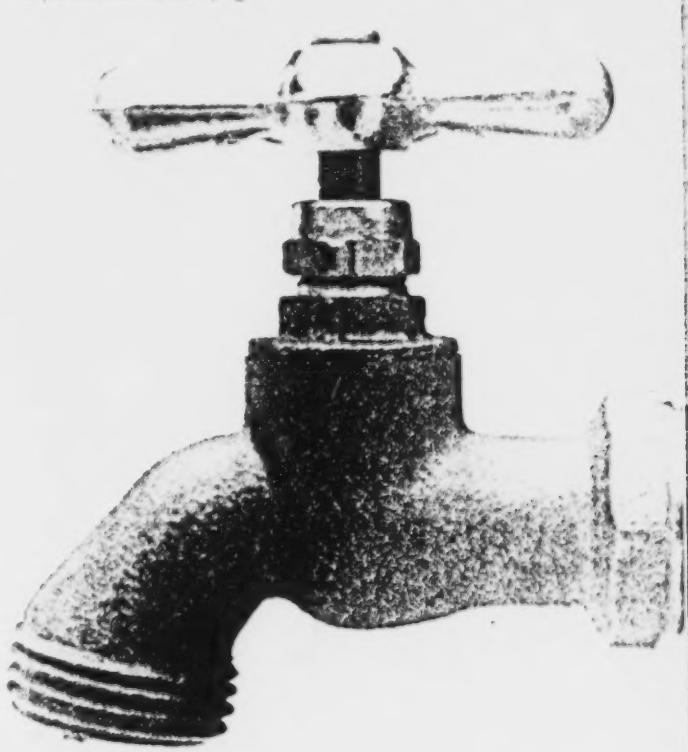
All Washed Up

Check for toilet leaks by adding a few drops of food coloring to the water tank. If colored water shows up in the bowl within a few minutes, there is a leak. Most leaks are fairly simple and inexpensive to fix. Should you need to replace your toilet, consider purchasing a new water-efficient model that uses only 1.6 gallons of water per flush.

An Illuminating Idea

Did you know that compact fluorescent light bulbs use about one-fourth to one-third of the energy used by an incandescent bulb? They last longer too. Even though compact fluorescent bulbs cost more initially, over the life of the bulb, you'll save money in energy costs and help the environment. Note: Lighting accounts for about one-fifth of all electricity consumed in the U.S.

We would like to thank KCTS/ Seattle for sharing the information on the Power of Personal Choice page and the Experiments on this page.



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Gotta Question? Need An Answer?

See if your question is among the top 5 questions asked on the Department of Environmental Quality hotline.

Q. I am doing some remodeling and might have asbestos in my home. What should I do? Are there precautions I should take?

A. If you have hired a contractor to do the work, it is his/her responsibility to have an inspection before disturbing the site to determine if asbestos is present. If you are doing the remodeling yourself, contact the Utah Division of Air Quality's asbestos program before beginning and discuss with a staff member the necessary procedures and precautions. Also, a free brochure is available which outlines steps to take for respiratory protection and control mechanisms. Finally, if you suspect an asbestos problem in your building, contact the Division and arrange for an inspection. The number is (801) 536-4000.

Q. Where Can I Get Emissions Testing For My Car Or Truck?

A. Check your yellow page listing under "Car Inspection" for the nearest location.

Q. Where Can I Get Hazardous Waste Training?

A. There are three hazardous waste training programs at local colleges: Salt Lake Community College (801) 957-4942, Utah Valley State College (801) 222-8677, and the Rocky Mountain Center at the University of Utah (801) 581-4800. Environmental consultants can train your company employees. Check the yellow pages under "Environmental & Ecological Services."

Q. My Neighbors Have Trash All Over Their Yard. Who Do I Call To Complain?

A. Contact your local health department. Check the white pages in the "blue pages" section.

Q. How Do I Recycle My Used Oil?

A. If you change a small amount [illegible] time (up to 5 gallons) there are over 260 [illegible] collection centers around the state where you can dispose of your oil for free. If you are a farmer or otherwise involved in agriculture, you can recycle up to 25 gallons a month of used oil at collection centers which accept larger quantities for free. For locations, call the DEQ Project Environment Hotline at 1-800-458-0145 or the Division of Solid and Hazardous Waste at (801) 538-6170.

If you have a question not listed, call DEQ's Hotline at (800) 458-0145 or email at DEQ info@deq.state.ut.us

Earth & Us

Green Pages

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For additional copies of this guide call: (801) 585-LINK or visit the web at: www.kued.org/inthecommunity/earth&us/greenpages

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